

IN THE SPECIFICATION:

Please amend paragraph [00055] as follows:

-- The present invention provides purified and isolated polynucleotides (e.g., DNA sequences and RNA transcripts, both sense and complementary antisense strands, both single- and double-stranded, including splice variants thereof) that encode unknown G protein-coupled receptors heretofore termed novel GPCRs, or nGPCRs. These genes are described herein and designated herein collectively as nGPCR-x (where x is 86-93, 2588, 2589, 2591, 2592, 2593, 2594, 2595, 2596, 2598, 2600, 2601, 2602, 2603, 2604, 2606, 2607, 2608, 2609, 2610, 2611, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2621, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2639, 2640, 2641, 2642, 2643, 2644, and 2645). Table 1 below identifies the novel gene sequence nGPCR-x designation, the SEQ ID NO: of the gene sequence, the SEQ ID NO: of the polypeptide encoded thereby, and the U.S. Pat. Appl. No. 10/035,260, a Provisional Application in which the gene sequence has been disclosed.

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Table 1

nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:	nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:
86	1	59	A	2613	30	88	D
87	2	60	A	2614	31	89	D
88	3	61	A	2615	32	90	D
89	4	62	A	2616	33	91	D
90	5	63	A	2617	34	92	D
91	6	64	A	2618	35	93	D
92	7	65	A	2619	36	94	D
93	8	66	A	2621	37	95	D
93	9	67	G	2624	38	96	D
2588	10	68	B	2625	39	97	D

2589	11	69	B	2626	40	98	E
2591	12	70	B	2627	41	99	E
2592	13	71	B	2628	42	100	E
2593	14	72	B	2629	43	101	E
2594	15	73	B	2630	44	102	E
2595	16	74	B	2631	45	103	E
2596	17	75	B	2632	46	104	E
2598	18	76	B	2633	47	105	E
2600	19	77	B	2634	48	106	E
2601	20	78	C	2635	49	107	E
2602	21	79	C	2636	50	108	F
2603	22	80	C	2637	51	109	F
2604	23	81	C	2639	52	110	F
2606	24	82	C	2640	53	111	F
2607	25	83	C	2641	54	112	F
2608	26	84	C	2642	55	113	F
2609	27	85	C	2643	56	114	F
2610	28	86	C	2644	57	115	F
2611	29	87	C	2645	58	116	F

Legend

A= Ser. No. 60/195,150

B= Ser. No. 60/195,099

C= Ser. No. 60/195,151

D= Ser. No. 60/195,148

E= Ser. No. 60/195,093

F= Ser. No. 60/195,098

G= Ser. No. 60/230,149

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Please amend paragraph [000118] as follows:

-- Variant polypeptides include those wherein conservative substitutions have been introduced by modification of polynucleotides encoding polypeptides of the invention. Amino acids can be classified according to physical properties and contribution to secondary and tertiary protein structure. A conservative substitution is recognized in the art as a substitution of one amino acid for another amino acid that has similar properties.

Exemplary conservative substitutions are set out in Table 2 (from WO 97/09433, page 10, published March 13, 1997 (PCT/GB96/02197, filed 9/6/96), immediately below.

Table 2
Conservative Substitutions I

SIDE CHAIN	CHARACTERISTIC	AMINO ACID
Aliphatic		
Non-polar		G A P
		I L V
Polar - uncharged		C S T M
		N Q
Polar - charged		D E
		K R
Aromatic		H F W Y
Other		N Q D E
		--

Please amend paragraph [00119] as follows:

-- Alternatively, conservative amino acids can be grouped as described in Lehninger, [Biochemistry, Second Edition; Worth Publishers, Inc. NY, NY (1975), pp.71-77] as set out in Table 3, below.

Table 3
Conservative Substitutions II

SIDE CHAIN	CHARACTERISTIC	AMINO ACID

Non-polar (hydrophobic)

A. Aliphatic:	A L I V P
B. Aromatic:	F W
C. Sulfur-containing:	M
D. Borderline:	G

Uncharged-polar

A. Hydroxyl:	S T Y
B. Amides:	N Q
C. Sulfhydryl:	C
D. Borderline:	G

Positively Charged (Basic): K R H

Negatively Charged (Acidic): D E

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Please amend paragraph [00120] as follows:

--As still another alternative, exemplary conservative substitutions are set out in

Table 4, below.

Table 4
Conservative Substitutions III

Original Residue	Exemplary Substitution
Ala (A)	Val, Leu, Ile
Arg (R)	Lys, Gln, Asn
Asn (N)	Gln, His, Lys, Arg

Asp (D) Glu

Cys (C) Ser

Gln (Q) Asn

Glu (E) Asp

His (H) Asn, Gln, Lys, Arg

Ile (I) Leu, Val, Met, Ala, Phe,

Leu (L) Ile, Val, Met, Ala, Phe

Lys (K) Arg, Gln, Asn

Met (M) Leu, Phe, Ile

Phe (F) Leu, Val, Ile, Ala

Pro (P) Gly

Ser (S) Thr

Thr (T) Ser

Trp (W) Tyr

Tyr (Y) Trp, Phe, Thr, Ser

Val (V) Ile, Leu, Met, Phe, Ala

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Please amend paragraph [00238] as follows:

-- The following Table 5 contains the sequences of the polynucleotides and polypeptides of the invention. The transmembrane domains within the polypeptide sequence are identified by underlining.

Table 5

The following DNA sequence Seq-86 <SEQ ID NO. 1> was identified in *H. sapiens*:

ACACAGTGTGCACACACGTGCAGGGACATACCCCTTCCCCAACTGCCTGGC
CTGCACACTTGGCATTCCAGTATTCTAGGAAGTGTGGCTCTGTGCATCCT
GAGCCAATCCAGCTCCGAGCCTCCAAGGCATCCTGGTGTGGCAGCTGGAA
GCTCTGCCTCTGAGGCCTTCACACACCCACCTCGGTCAAACATTGCTTCTGCT
GAGGAACCTGGTGTCTCCTCTGGGCAGGAGGTACATTGAGAGCACA
GGAGCAGTGCCTGCCCGGGATGTGGCTCTGGGTAGAATTGCAGGCTCA
GGGGTTTGGGCAGGAGAGCACCAACCGTGCCACACCCACACAGACACGGTC
ACTGGGGCCCTGCAGCAGGGACGACCGCACTCCCAAAGGGCTGGGAAGCC
ATGTCCAGAGGAGGCCATGCTCTAGCTCCCTGGGCAGGGCTGGCTGCAAGG
AGGGTGAAGTTGGGCATCTTGAACCCAGAGAAGTAGAGGACTCAGCACCAG
CACAAACCAGCTGGCGCATTAATACACATTCCCTCTCCACTTCTCCCCAAGCC
TGAAAAAAACCTCAAACCAGCCTTTGCAGCTCCCTGAGGTATGACTCACCG
AACCATGCTCGGGGCAGGGAAAAGAAAAGCATCCG

The following amino acid sequence <SEQ ID NO. 59> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 1:

DAFLFPCPEHGSVMTSGSCKEAGLRFFQAWGEVGECVLMRRAGCAGAESSTSL
GSRCPTSPSLQPALPKGARAWPPLDMASQPFGKCGRPCCRAPVTSVVWHGW
CSPAQNPNACNSTQSHIPGGQALLCSQMPPAQKEDTPSSAEASLTEGGCVKASE
AELPAAHHQDALEARSWIGSGCTEPSPRNTGNAKCAGQAVGEGGMSLHVCAH
C

The following DNA sequence Seq-87 SEQ ID NO. 2> was identified in *H. sapiens*:

CTAAAGGAGGAATAGATGTCTTAAGAAGAAATGAAAAAAATAAGTAAATG
TGAAAATTCCCTTACTTATTCCAAACAAGTGCTCCTCCAAAAAAATGCAA
TAATTAAAGTTCTGAAATGGTGAACATATCAGATTAGTAGACATATGGCAGG
AGCAGCAAATGAGCAGATCAAGTTGAAGTCCTAGTATTACCAATCTGTTAAT
GTTGACAGGAAGACTCATTGACTGTTCTTTATATCAATAATGAGTGG
TTTCAACTACTCTAAATAGGAATGCTAAAAGCAGCACTGCTAAAAGTGCATA
TCAAACCAATAATTTCTGATGCTGTTGGTATATCCTACAAACATTGTAG
GACAACAACTCAGAAGGGAAAAAAATCTTATGCCTTGAGGTCTGTACTG
AATGCTAATGCATTGTATATGATGGGTTAACAGAACTGAGAATAAATT
ACTTTCAGCAGCTGCACTCTAGACCTATAATCGCTCTGAGTACTACAAAATC
CATACAAAGGAAGAACAGCTGGATAATTACACCACAGTATTGTCAAAAA
AAAAAAAGCTGAAAATACAGAACCTGATTTGTCCTTTGAGTA

The following amino acid sequence <SEQ ID NO. 60> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 2:

LEKGTKSGSVFSAFFFFFQILVVIQLFFCMDFVVLRAIYRSRVQLKVIYSQFCIK
PIIYKCISIQYRPQRHKIFFSLLSCCPTNVCR^{IYQNSIRKLLVYALLAVLLAFLFRV}
VEIHSFIDIKGTVKMSLPVNINRLVILGLQLD^{LLICCSCHMSTNLICSPFQKLN}YLH
FFGGALVWKVREIFTFLFFHFFLKT^{SIPPL}

The following DNA sequence Seq-88 <SEQ ID NO. 3> was identified in *H. sapiens*:

AGGGGCCCTCCAGCACTGGTCTTGAAGGGGTGACAGGGTCTGGGTCTGACT
CCCACCTCCACCACTTCCCACCTGAGGGCCCTGGAATGAATCCTTCCTGGAT
CTGAGCTGCCACATCATCAGTGAAAATGACACCTATATGGGACTTCAGTGAG
AACACAAATGCAACGTTCCCTGCCACGGAACAACCCATGTACTCACTGGGAGC
ATTGAGAGTAGATCCACACTGATTGACACAGGGACTCCAGGCCTGACCCATG
ATATGTACTGGATACATGGCCATGAGTGCTCCACAG

The following amino acid sequence <SEQ ID NO. 61> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.3:

VEHSWPCIQYISWVRPGVPVSISV DLLSMLPVSTWVVPWQERCICVLTEVPYRCH
FHCGSSDPGKDSFQGPQVGSGGGSQTPDPVTPSRPVLEGP

The following DNA sequence Seq-89 <SEQ ID NO. 4> was identified in *H. sapiens*:

ACACCAAATACTGCTTGCTGCCTTAGGCTTCAGCACATTAGCATGGCTTCCT
CCCTTGGCATGGTAACTGTAGCTGAACCTGGAGGGTTGTATTACCCATTATA
ATTATTACTTATTCACATGGAAAACAAGAAAATCTTATGGGAATTCCAAGT
TCCCCCTAGGAATACCAAAGAGAGGAAAAGGCTTGAGGATGGCCTGATG
TGTGAAGTGGTGTTCATTGTGTGTTCACTCCTTACACCTCAACTCCCATT
TTTATGATGGTGAAGGAACATGTCTTTGAAGTGCCTTTATAAAGATCAT
TCTCTGTTCCACATTATTCCTGTGCTTGCACATTCTGAATTGTTGTCTTGA
TCCAGTTGTATATTATTTATGACCTCAAAATTCTGATCAATTTCAGATCA
TGGCAGCTGGTCTTCAGTCATGTATGAGATGTAATAACAGTACCTTAGAAA
TTCATCAGAGGAAGGGAGGATCTCAAACATCTCTTGAATGTTGAAAG
ATTCCAAGACAATATAATCAAATAATTAACTAGAAAAATCGATATGCTCTAT
TAGTGTATCTATGTCACTTGAAGATTCTTTCTTTCTTTCTTTCTTTATT

ATACTTAAG

The following amino acid sequence <SEQ ID NO. 62> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 4:

HQILLCCLRLQHISMASSLGMVTVAELGGFVLPIIITYFTWKTRKSLWEFQVPPR
NTKERKKALRMVLMCEVVFIVCFTPYHLNFPFFMMVKEHVFLNCSFIKILCFHII
SLCLANLNCCLDPVVYYFMTSKFHDQFSDHGSVLQSCMRCNNSTLEIHQRKGG
SSNYLSMFERFQDNIIKLTRKIDMLYCIYVTLKIFLFFSFLLYFK

The following DNA sequence Seq-90 <SEQ ID NO. 5> was identified in *H. sapiens*:

AATGCTACTGCTCCTGCATATAATAGCTGCTTGAAGTGTGCTGCTATGT
CCAAAACATAGACTCTTCAAAAGCACTTCTGTTGCTCCTTTCTTGCA
TAGGAGTCACATTTCCTGCTCTCACATATTCAATTATTTATTGTTGAA
ACCAAGACATTAGATAATGTGTTGTAGCAGTCCAGATACTGATTCTCCCC
CAGGAGCTGTTGCTTCTTACTTGTATATGTGTTAGTGACTGGCTGGACTA
TTTAATAATGTGTATTCCCTGTAGTATACCATCTTATACTAATGTTAC
TTTCCGATAGTGCAGCCTGGCATGGACAGAGTTACCTGGATGACAGT
AACTTTAATAGGGCTCTATGACTATCTCTTCCGTATGTCCTGTTAAGC
TATCTGCATCTTGGTATCACACCTAGCCTTGACTCCACTAATTGTTGAT
CATTGCCTCACTGTTTGGCAGTGCCTAAGGCATAAAGTGGTCCACAGTCT
GATATAATTAAATTCAGATTCTTACAAGAGTGGTCTTGAGGCCAGTCCTGA
GGTTTGCTGACTCTGGGAGGGCTCAAATGTTCCCT

The following amino acid sequence <SEQ ID NO. 63> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 5:

CYCSCILLSVCLLCPKHRLFQKHFLSPFSLAESHFSVSSHISYLFLLKTRHFRCVV

AVQILILSPRSCCLSYLEMCLVTWLDYFNNVYFPVVYTIFYTNVTFPIVQPWAWT
ELSWDDSNFGSLLSLSLMSLLSYLHLLVSHLAFFHLFDHCLTVFGSALRHKVFH
SLILNSDSYKSGLGQSLRFVLTGGLKCFP

The following DNA sequence Seq-91 <SEQ ID NO. 6> was identified in *H. sapiens*:

CCTCACATCCCCCTCCCTCAAACCCCTGGCAACCCAAACTGTTCTGACAGC
CTCCTTGGCATTTCCTCATTGGTGTCAAGATCTCACAGCAGAATTCTTACC
TATTATATACCACTGCCTCAGTGTGAAGTTCCGGTTAACCTCTTACAC
GAGCCCACATCTGCCCAATAATACCCCTCCCCAATTACAAACACACAA
GCATTCCCTCCTACAGCTTGGGCCTCCTATCTGAGTCCTCAGGAAAGAAGT
GCTGTGTAACCTCCCTGGCAGTGAGTGTAGACTTGGTCCAAGGAAGATGAGC
ACCAGTCAGGGCAGCTGGGCCCTTCTCTCCCTGGCCATCAGCAAATCAGC
ACTGCCCATCGATGCCAGGCAATGGGAGCG

The following amino acid sequence <SEQ ID NO. 64> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 6:

PHIPFPSNPGNPKLFLTASFGISSLFCQISQQNFLPIIYQCLSVKFRFNFLPRAHYL
APIIPSPNSQTHKHSLLQLWASYLSPSGKKCCVTPLAVSVDLVQGRAPVRAAGPS
SLPGHQQISTAHRCPGNGS

The following DNA sequence Seq-92 <SEQ ID NO. 7> was identified in *H. sapiens*:

ATTACTATTTCAACCTTTACTCCAGGGACTTCTATGCACCCCTCTCCCTC
AACTCCCCCTCAATTGTTCTCATATCCCCATGACCCCCAGTTTATAACAC
CACTGTCAGGAGCCAAAGCTGCCATTCACTCCATTAGCATGACTCTT
CATGTACTTGGGGTCTCAGTCTCTCCCTCTCCTAATTCCAGGGTCCAT
TCTGCTTCTGCTGGCTTCCCTACAAAGCCTGCAACATCATAAGCCATTCAGG

AAAGAGCTT GATCATCTTTGATGAACCCCTGCATT CATGACTCACTGCCTTAC
CTGTCTTGCTCTGCATGTCCCCCAGTTCCGTTCTTCTGGAAAGAGAG
ATTGCCAAGAGTCCTGCACATCAGCATTACTAGAAATGCATGCAGACCAGC
TTCAGCTGCTGCCAACTCTTAAAAAATGAGTAAACAATTCTAAAGGGGA
AAAAATCTCTCACCTCCTCACACCAACTATTGCATAATTAGT GACCTTT
ATAAACCGTGCCATTGTATAAGCA

The following amino acid sequence <SEQ ID NO. 65> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 7:

ITIFQPLLQGLLCTLSSLNSPSICSHNPHDPQFYNTTVRSPKLPFIHFHITIFQPLLQ
GLLCTLSSLNSHDSSCTLGSSVSPLLISRVPFCFCWLPYKACNIISHFRKELDHLLM
NPAFMTHCLTCLWLCMSPSFRFFLWKERLPKSPAHQHYKCMQTSFSCLPTLKMS
KQFSKGEKISSPPHTNYLHNSVTFYKPCHCIS

The following DNA sequence Seq-93 <SEQ ID NO. 8> was identified in *H. sapiens*:

CACCGTCCTCATCATGATCGTCTCGTCATCTGCTGCTGGGGGCCCTACTGCT
TCCTGGT GCTGCTGGCCGCCGCCGGCAGGCCAGACCATGCAGGCCCTC
GCTCCTCAGCGTGGTGGCGTCTGGCTGACCTGGCCAATGGGCCATCAAC
CCTGTCATCTACGCCATCCGCAATCCAACATTGATGCTCCTAGGGCGCAA
CCCGCGAGGAGGGCTACCGGACTAGGAATGTGGACGCTTCCGCCAGCCAG
GGCCCGGGTCTGCAAGCCAGAAGCCGAGTCGCCCTCGAAACCGCTATGCCA
ACCGGCTGGGGCCTGCAACACAGGATGTCCTCTTCCAACCCGCCAGCGGAGT
GGCAGGGGACGTGGCCATGTGGCCCGCAAAATCCAGTTGACTTTCTGC
CGAGAGGGACCACCAGAGCCGGTACGGCAGTGACCAAACAGCCTAAATCC
GAAGCTGGGATACCAGCCTCTAAGACGGTTGGAATGCCAGCTTATGAAGG
CAAATTCCACTCGCATTATTAATGATGGAAGATTCTGGGGAGAGTTGTGG
ATTCATAAAGCCAAACATTAAAGCTAGAGACGGGGAGGCTTACCACTT

CCCCAAACAAACATAAAAGACAATGTCCCTTCTTCAAAAAGTGC

The following amino acid sequence <SEQ ID NO. 66> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 8:

TVLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPV
IYAIRNPNISSLGRNREEGYRTRNVDAFLPSQGPGLQARSRSRLRNRYANRLGA
CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVTKQPKSEAGDTS
LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNIKDNV
PSFKKC

The following DNA sequence nGPCR-93 <SEQ ID NO. 9> was identified in *H. sapiens*:

CGCTCCTGCGTAAACACGCGGTTCCCTCGGAAACGCTGGAACCCACGTCAAA
GGCTCCGCCAGGTCCCCAGCGACCGCCACCCCTCCGGCCGAGCCCAGCTCCC
CGCGGCCGCCGCTAGCCCCCGGCCCCGAGCCACCACTCCGACCTAGCGGCCG
CCGCCCCCGGTGCGGGATGAGGAGATCCGCGGCCGCACTGGGCCCATGGA
GGAGCCGCAGCCGCCCGCCACCAGCGAGCATGGCCTACTGGGCAGCCA
GCACTCCGGCCGCCCCCTCCGCGGCCGACCTGGCGGGACTTCCTCCGCG
GCCACGGCGGCCGTGCTCTCCTTCAGCACCGTGGCGACCGCGCGCTGGGA
ACCTGAGCGACGCAAGCGGAGGCAGCACAGCTGCCCTCCGGTGGCG
GCCTTGGCGGGTCCGGGGCAGCGCGGGAGGCAGGGGGCGCGGTGAGGCAGC
CGCTAGCGACGGAGGCAGCGCCGCTGCTGTCGACGGAGCTGCAGTGGCG
CCAGGGCGCTCGTCCTCCTGCTCATCTTCCTGCTGTCTAGCCTGGCAACTGCG
CGGTGATGGGGGTGATTGTGAAGCACCGCAGCTCCGACCGTCACCAACGC
CTTCATCCTGTCGCTGTCCTATCGGATCTGCTCACGGCGCTGCTCTGCCTGC
CCGCCGCCCTCCTGGACCTCTCACTCCGCCGGGGTTCGCGCCTGCCGCC
GCCGCCGGGCCCTGGCGCGGCTTCTGCGCCGCCAGCCGCTTCTCAGCTCGT
CTTCGGCATCGTGTCCACGCTCAGCGTGGCGCTCATCTCGTTGGACCGTTACT

GCCTATCGTGCAGCCGCGCGGGAGAAGATCGGCCGCCGCGCGCTGCA
GCTGCTGGCGGGCGCCTGGCTGACGGCCCTGGCTTCCTGCCCTGGAG
CTGCTCGGGCGCCCCGGAACTCGCGCGCGCAGAGCTTCCACGGCTGCC
TCTACCGGACCTCCCCGGACCCCGCCAGCTGGCGCGCCTCAGCGTGGG
GCTGGTGGTGGCCTGCTACCTGCTGCCCTCCTGCTCATGTGCTTCTGCCACT
ACCACATCTGCAAGACGGTGCCTGTCGGACGTGCGCGTGCAGGCCGGTGAA
CACCTACGCGCGCGTGCCTTCAGCGAGGTGCGCACGGCCACCA
GTCCTCATCATGATCGTCTTCGTATCTGCTGCTGGGGGCCACTGCTTCTG
GTGCTGCTGGCGCCGCCGGCAGGCCAGACCATGCAGGCCCTCGCTCC
TCAGCGTGGTGGCCGCTGGCTGACCTGGCCAATGGGCCATCAACCTGT
CATCTACGCCATCCGCAATCCAACATTGATGCTCCTAGGGCGAACCGC
GAGGAGGGCTACCGGACTAGGAATGTGGACGCTTCTGCCAGCCAGGGCC
CGGGCTGCAAGCCAGAACGCCAGTCGCCTCGAAACCGCTATGCCAACCG
GCTGGGGCCTGCAACAGGATGTCCTCTCCAACCCGGCCAGCGGAGTGGCA
GGGGACGTGGCCATGTGGCCGCAAAATCCAGTTGACTTTCTGCCGAG
AGGGACCACCAAGAGCCGGTACGGCAGTGACCAAACAGCCTAAATCCGAAG
CTGGGGATACCAGCCTCTAAGACGGTTGGAATGCCAGCTTATGAAGGAAA
TTTCACTCGCATTATTAATGATGGAAGATTCTGGGGAGAGTTGTGGATT
CATAAAGCCAAACATTAAAGCTAGAGACGGGGAGGCTTACCACTTCCCC
AAACAACATAAAAGACAATGTCCTCTTCAAAAG

The following amino acid sequence <SEQ ID NO. 67> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.9:

LEPTSKAPPGPQRPPPLRSPAPRGGRPPAPSHSDLAAAAPGAGGDPRPPLGPME
EPQPPRPPASMLLGSQHSGAPSAAGPPGGTSSAATAAVLSFSTVATAALGNLSD
ASGGGTAAAPGGGLGGSGAAREAGAAVRPLATEAAPLLSHGAAVAAQALVL
LLIFLSSLGNCAVMGVIVKHRQLRTVTNAFILSLSLDLLTALLCLPAAFLDLFTP
PGGSAPAAAAGPWRGFCAASRFFSSCGIVSTLSVALISLDRYCAIVRPPREKIGRR

RALQLLAGAWLTALGFSLPWELLGAPRELAAAQSFGCLYRTSPDPAQLGAAFS
VGLVVACYLLPFLLMCFCHYHICKTVRLSDVRVRPVNTYARVLRFFSEVRTATT
VLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPVI
YAIRNPNISMLLGRNREEGYRTRNVDAFLPSQGPGLQARSRSRLRNRYANRLGA
CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVKQPKSEAGDTS
LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNI

The following DNA sequence Seq-2588 <SEQ ID NO. 10> was identified in *H. sapiens*:

TCTCAAAAATAAAATAAAACCACTGTACATCAACAAAGGCCCTGGGGGACA
GCTGGGGCATAAGTAGGTGTCAGCCATACATCAGAGCAGTGTGCCTGCCCTG
AGCTGCTTGGGTTGACCAGCCTGGTCCAGAAATGCCTGCTGGAGGGAGT
CGTGGTACAGGAAACCTTGTGCTCTAGAAGGTCTCCTGAGAGGCCCTGCAA
AGCCAGAGTCCCTCTTAGCAGCTCAGATCAGTGCTATCAAAGTATACTCGG
GGATTGCTGCCAGCATACAAACTTTACTGGTCTGCAGCGAGATAAGTACAG
AAATTGAAAGTAAGCATTAGAAACTTTATAACAATTTCACCTTTCAAGGTCTTGT
AAATGTTATTAAAACAAAGCTGAGGCTGGAATTCACCTTTCAATTGCTT
TTTCAATTAAACAAATTGTAGTAAAATATAGGTAAATATAAATGTACCAATT
TAGCCATTGGAGCGTACAATTAGTAGCAGTAAGTGCTTCACAATTG
GTAACCACCTAGTATTATAGTATATATTAAAATTACAGAAGTATTAA
GTTAGCAGCAGATTAAACATTCTAAATTGAGCTGAGAAGCGCTGGC

The following amino acid sequence <SEQ ID NO. 68> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 10:

ASASQAQFKKKMFNLLTYFCKILKIYTIYWLHNIVKALTATKLYAQKWLKWYI
YITYILLQFVIEKNEMKKVKFQPQLCFNNIQDLVKLLKFLNAYFQFLYLSRCRPV
KVCMLAAIPELYFDSTDLSCEGLWLCRASQETFEHKVSCTTPSSRHFWTG
PSSSGQAHCSVDWLPTYAPAVPQGPCCCTVVFYFLR

The following DNA sequence Seq-2589 SEQ ID NO. 11> was identified in *H. sapiens*:

AGAGAGCAGATTGCCCTGTGTAGGTAGGTCTGGGTTCTTCTAGTCCAGAGT
AGGGAAGAACAGGAAAGAGGGCTGGTGTGAAGGACCTCAGCCACGAGA
AGGGCTGTGTACCATGTAGCCCTCTGGGGAGGCACAAAAAGGCTCACCATT
TCTGAAAATGACTAGACTGCAGGATCCACGTGAGTGTGACTATTGCATT
GACCTTATCCACAGGGCCTACAAGGTGCCTGACATGCAGTAGGCTCCAGAT
GCATATTATTATAAAGTGAATAGTCCTTAAGCTGCAGGGTCCCTCTATTG
CATTCTAAGAAATAGTCACTTTATGCCTAATTGTATTGCAGTTTATAAG
TTTTATAAGAGGGTCTCCCAAATAGTATAAACTCAAGCCCCACAAAACCTAT
GTTGCCTCCCATAGGCATGCAATAATGTTCGTGGATCTAATGAGTAACAA
GAAAAAGAAGGAACAAAACCTAACCCCTCCCTACCCAAACCAAGTGGCAA
CCGGGGAGGATCAAATTCAACCTTGATCAGTCAGAGGCAGCATTCTAAATT
ATTCCCAAGCAGCAATAGACAATGATTACCTCAATTATTAGCCAGTTAA
AAGCTTAGTTCTACTTGCAACCGAAGGCTGAAGGCAAAATGTGTTAAG
CCTC

The following amino acid sequence <SEQ ID NO. 69> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.11:

RLKHILPSSLRLASKNAFNWLNLRIIVYCCLGIIECCLLIKVEFDPPRLPLVWVGEG
LGFCSSFFLLLIRSTNIYCMPMGKHRFCGASLYYLGDPLIKLIKLIQNAKLFLR
MQIEGTLQLKDYSLYNKYAS
GAYCMSGTLGPVDKVMNAIVTLTWILQSSHFKMVSLFVPPQRATWYTALLVA
EGPSTPALFPVSSLWTRKNPDLYTGQSAL

The following DNA sequence Seq-2591 <SEQ ID NO. 12> was identified in *H. sapiens*:

TTCAGGCAGATGTCAGTTAAAAACTTACCTCTGCACACTGCAAAAACGTAT
AGCCCTGAACAGATACTTTCTTGAGCATAGTCCTTGTCTCTAAAGCAGGC
ATAATTGCCAATGTGGGGATGATATTAGAAATCTGAACGTGATGTTATTCTC
TAGGGTCTCTCATTGAGCTGGATTGGAGATGTCTAGTGTCTCAGAGCAG
CAATAAGAAAACAGAAACCTCTCCAGCTCTGACATCCAAATGTCAAGCTC
TTAGGAGAAGAATGGAAAGTCCTCAAGAAATGCAAATAGCTTGGCAGAATA
GCTGATGAAGACCACCTCTCCCCCTCCAGAAAGGCATTGGTCCCCATTCAT
GGAAAAGGGAATGTAGAGAGAGATTAGATAATAGTACATCCATAAGGTTCC
GGAATCTGCATCTGAGGAAGAGGGCGTCAGAGACCCCAGCTGTTATCTATA
ATCCCTCCT

The following amino acid sequence <SEQ ID NO. 70> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 12:

EGLITAGVSDAPLPQM**QIPGTLWMYYLISLYIPFSMNGEPMPFWRGERWSSAI**
LPKLFAFLED**FPFFSELDIWMSEAGRGCFLIAALRHTSPIAQMRP**LENKHQFR
FLNIPTLAIMP**ALETKELCSRKVSVQGYTVFAVCRGKF**LTDICL

The following DNA sequence Seq-2592 <SEQ ID NO. 13> was identified in *H. sapiens*:

GCACTAGGGCAAAGTCAAGACATA**CGGGTGTCCAGTTCTAGCTTGCAACTA**
ACTGGTTATATATTTAAGTTACAGTC**ACTCTGCGCCAGTTCTCATT**TTA
ATAGAGTGGGTTAGAACTAGATAAA**ACTTCA**TTTGTCAAGCTCTAAATT
TGACTTCAGGAAAAA**ACCATAAGGC**ACTGGAGGTTATTCA**AGTTTTCTG**
CTGACCCCGTCCCTCTGTTCTCAACCACCAAGACA**ATCAACTTCCCT**
GATTGGAGATTGGAACAGGTGTGTT**CTAATTCTAAATGCATCA**CTTA**ACTATT**
AGTTCCA**ACTCTG**GGGCTT**CTCAAATAGGG**AATTAGACTGGT**CTCCAA**
TCT**CTTG**TACAGATGAGTA**ACTTATTACCCAAAGATTAGT**ATTAA**ACAGT**
CGGGAGCAGGAGGGAGA**AAACTTATGAGACAACAGCC**ATTCCACAGTGG

GAGGAATGGTTGTTCCAATAGAAGTTACCAGATTCACTCCCATTGCCAAA
TAGATATTATGAGCAAGGAAGAAAATCTATAGTAGTAACCTAACGACCACAGA
AAGATCAAAGCCCAGAGGGTGAGGGTATGGCAATAAACATTAGACATATCTC
TAACCCTCTTGTTGAAATACTCATTACCTGTGGTACTGGGAATACCTGT
GCCTACAA

The following amino acid sequence <SEQ ID NO. 71> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 13:

LAQVFPVPQGNEYFKQKRVRDMSNVYCHTLWLALIFLVVLSYYYRFLPCSYLF
GNGTEIWLLGTNHSSPLWKWLLSHKYSPPCSRLLILNLWVNKVTHLYKEIGDQ
SNSPIRKPQRVGTVNSVMHLELEHTCSNLQSGKLIVLWWLKKQRGTGSAEKPMNK
PPVPYGFPLKSEFRAQNESIYLVLTHSIKNEETGAELLKNIPVSCKARTGHPYVLT
LPC

The following DNA sequence Seq-2593 <SEQ ID NO. 14> was identified in *H. sapiens*:

TTCTGCCATCGCAAGGGAGGGAAAGAGCACCTAAAGGGCTATGAGAGGTTT
GAUTGACCAAGGGAGGGAAACAGAACACACATTCCCTTCCATTGGCTAGGACTCG
GTCACATGGCTTCCCTCATTATTAGTGAGGCTGGAGAATTCACTCTATTGT
GAGCCCAGGAAGAAGAGAAAACAAATTGTGGTAAACATTAGCAGTCTCTAT
GACAATAGTCTGTATGTTGACTGCAAAGGTGGATGAACAAAACCAAGCCTCC
TTTAAAGCAATACAATCTGGCAGAGTCCCTGGTTATCATTCTGAACATAGAT
GCTTATTGTTCAAGAGTTAAGAAAATTAGCATGACTGCATTCCAGTTCTATAA
ATTTAATCTTATTCAAGCTAGTAACACGTTTATATAGCAAGGAACACTCATATAT
AAAACAAAAAAACCTAGTAACACGTTTATATAGCAAGGAACACTCATATAT
ATCACTTCATTGTATCCTTACAACAATCCTGTGCAGTATATGTTTACTCCCTT
TCTTCTATGTTTGTATATAAAGAAATGAGCCCCAGGGAGTTGAATGGCTTGC
CCCAACTAGTGAAGCTAAACTCCAATCCAGGTCTTTATTCCAAATCCAT

```
AATCTACAACCATCTGTAGAGAGTTATAATTAAGAGATATGAATGGTCAGGG  
GCCTTCCATTTCAGTGCAAGTCTGCCAGCTCCAACTACCAGCATCTG
```

The following amino acid sequence <SEQ ID NO. 72> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 14:

```
LPSQGEGRAPKGLMRGLTDQGREQNTFLSIGDSVTWLSLIISEAWRIHLFVSPGRR  
ENKLWTFSSLYDNSLYVDCKGGTKPSLLSNTIWQSPWVIILNIDAYCSRVKKISM  
TAFQFYKFNLYSAYCHPHVLKNKIKNKKPSNYVLYSKEHSYISLHCILTTICSI  
C  
TPFLLCFVYKEMSPRELNGLPQLVKLKLQSRSFYFQIHNLQPSVESYNEIMVRGLS  
ISVQVCPAPTTSI
```

The following DNA sequence Seq-2594 <SEQ ID NO. 15> was identified in *H. sapiens*:

```
AATCCTGCATTCCCAGCTCTGGGTGAGAAGGAATTAGCTGGAGCCAAT  
TAGCAATCTTGTAGAACAGCAAATGAATTTGAATAAACTGGATACTAAACT  
GAAATGAGACCATTGAAACCAGAACAGAGCCTGAGATCCATCAGTTAGAGGAA  
ATAAAAGAAGTGGCATTTCCTGCCATCTGGGTGCAGTGTGAGTGATTTTA  
TAATCCTACCACATTTTATCCCTGCTCCCTAAACTGTAGGACCCAAGGAA  
CCTGGCTTTGTTCAACATGATGTGACCCATACCTAACCAAGGCCAGGCAC  
AAAATTGGCCTCCAATAAGTAGTGGATCAAAGTATGAATGGATAAACTGAAT  
GAATGAAGCCAAACTGAATTCTCCATAGCTTATCCAAATGGGAATGGTAA  
AAATCATAAGCTTGAGAAGAGAACTTATTAAGAACGCCCTACATCAGTCAT  
GAUTGGCATCATTGGTTAGTTACCCATTTCCTCCCTTCATCTCCTAA  
TGCAACTCTGGTTGGGCTGCAGTATAACCCAGTTAGAATACGCCCTCCCCAGA  
GTCTCATCCAGCTGGAGATGATCAAGTCACCAGTTAGCTAATAAGTTGCCA  
GCCAAAGTATTCAAGGATGAGACTTCCAGAAAAAGCATTGTTCTGATAAC  
AATGGACAGACC
```

The following amino acid sequence <SEQ ID NO. 73> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 15:

SVHCYQENNAFSGSLILNTLAGNLLARTGDLIISWMRLWGGRLTGYAAQTRV
ALGRREGENWVNPMMPVMTDVGLLNKFSSQKLMIFTIPIWISYGEIQVWLHSFSL
SIHTLHYLLEANFVPGLVRYGVTSTKQPGSLGPTVGKQGKCGRIIKITHAPRW
QGKCHFFYFLLMDLRLFWFQWSHFSLSIQFIQNSFASDKIANWLPANSFSPQSMG
NAG

The following DNA sequence Seq-2595 <SEQ ID NO. 16> was identified in *H. sapiens*:

GAACGTATTACTGAAAGTCATTGCTTTAGACTCTTCAACTACAGAGCAAG
GAAGTTTATGTGTATATAGTAATCTGTGAATATACACATACACATACATATT
CTATATGTAATCATCCATATTAAATTAAAGTAGAATATGAGTTCATACTGATA
TCTCCAATCCTAACAGTTACCAACAGGGATTATTCCGGCTTTCCCTTGGA
AGTTGCAACTCCTGCTTCAACAGTTAGAAATCTGGCTTCCATTCAATTGC
TTAATTGTTCAATTCCAGTACACATAAATGGTGGCTTCAGAATTAATAACTTA
TACCTCCATGGGAAATAACTTTATTAACTAAAGTACAGCACTTATGTATAGTA
CTTTTGAAATTAGACTTAGAGATTCCCTCTTCCAAAGTTACTTAGGT
CAGAACCATTTCCATTCTCAGTGAAGTTGTCTTATGTATTGTAATACAGTT
AGATTGTTCTGTCATATGGTCATTCCATCCTGGATTCCCTATCTCTTTTT
AACATTGCAATTAAAGTTCAATTCTTGTGCTGTATCATTCTATGGGTTT
CAATTAAATGCATAGTGTCAATGCCACCAGGAGCATACAGAGT
AGTTTCACCAACTAAAAATTCCCTATGTTTAC

The following amino acid sequence <SEQ ID NO. 74> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 16:

LLLLKVIARLFLQLQSKEVYVYIVICEYHTYTYFYMSSIFKLSRIVHTDISPNQL

PQGLFRPFSLGSLQLLQQLEIWLPYSFALFNSSTHKWWLQNLIPPWEITLLTKVQ
HLCIVLFEFLDLEIPLLQSYLGQNHFPFSEVVLCICNTVRLFCHMVHSILGFPISF
FNICIYVSFFCAVSFYGFQLMHSVMNLPPEHHTEFHQLKKFPMFY

The following DNA sequence Seq-2596 <SEQ ID NO. 17> was identified in *H. sapiens*:

CGTCCTCCTCTGTGTCATAATGGACATGATGATAGTTGGCTCACTCAGTAA
ACATTCTGTGTCGGAAGGATTGATTGTCCTTTCTGAGGCAACAATTGG
AGGTGATTGAAAAATCTTCTGAAAAATTAAAAATTCTAATTAAAAA
TAATGCAAGCTCATTAGAAAAAATTGAAAATAAAAGCACAATTG
CTTAACCACTAAAGATGACCATTGTTAGTTTTTTTTGGTGCTTTT
CCGTTCCAATCTCTTCTATTAAAACCTCTGAAATGTGATTGTAGCAATGA
CGCATAAGGGGCCCTGACACATTGAGAAATTATAAACGCTGGCTTCTG
TCTTGCTTTGTCCCCAGCTTAACGGAACTCTTTCTATATCTTGAAACT
CCAAATCCTAGATAATTCTCAAGGTCAAGCTCCAATGTCTGCTGGATTCT
CTCACAGGAATTGATCTATTCTCTGTATTGGGCCACAGGATCTATGA
CTCTCTTATGGCAACTACCACCTCTGCCTTATATTACGATTGGATCTTCC
AACAAAGTCTAATTGGAACTGGAG
GGAG

The following amino acid sequence <SEQ ID NO. 75> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 17:

FLPLCHNGHDDSWLTQTFCVWKDLICPFLEATILRFEKSFLKNKIFLIKNNASSLE
KNKINKSTIFLNHLKMTIVSFFFFVLFSVSNLFSIKTSEMLQRIRGPHIEKFINTLA
SCLAFVPSLTGNSFSISLKLQILDNSSRSSNVLLDSSQQELIYFLCIFVPQDLLSYG
NYHLLPYITIFESSNKVFFFFQMKSRYIAQAG

The following DNA sequence Seq-2598 <SEQ ID NO. 18> was identified in *H. sapiens*:

ATGTCATGGAAATGCAAGAATATGTGTCCAGCATGGAAGGGAATCAGTATG
GAAGTCTTTGATAAATTGTGGCATTATCACTAACATTGCCTCAAAACTTA
GACTACCTGCCATATACAAATTAGAGGTGAAAATTACTCCATGTAATATAC
AAGCCAACACAAAGAACCTATCCCAGTTCTGGATGGATAGGCAAGAAC
TGGGTAAAGTTATTGTGCAATAATCCTCTCTCTTCTATAGGCCAGGATT
AAGTTACCTCAAAATGGAAAATTGGCTGGAAAATTACATGTGGGAAG
ACATCTCAGTGGAGATTAGTAATTACAGTTCAGCTATGACCCTACCCCT
TTTCTACTAGATTCTGCCCATGTTGCCAGAACCTAGAAATCAATTATGT
TTTGATCATCATCTATGCCCTGATGTTCTACTGAACGTGATGTGAAACTCCC
TGCCGATGCTGGCATCTTATTCACTGAGTCAGCCACTGTCACCGATGTCTA
CCTGCTGACCTGGCCTGGCCGACCTGTTCTTCCCTGACATTGCCATCTT
GGCTGCCTCCAAGAACATGAATGGCTGGGATTTGGCACAATCTGTGCCAGGT
GGTCTAGCTCCTGAAGGAAGTCAACTCTACGGGGGTATTCTACTACTGCC
TGCCGCAGCATGGACTGTTA

The following amino acid sequence <SEQ ID NO. 76> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 18:

VMGNARICVQHGRESVWKSFDKLWHLSTLPQNFRPAIYKLEVKITSMYTSQH
KESYPSFLDGARIWVRFIVQSSLFYRPGFKFTSKMENFGWENYMWEDIFSGDFS
NYSFSYDPTPFLDSAPCWPESLINYVLIYALMFLLNVMNSLPMLVILFSVSHC
HRCLPADPGLGRPVLFPDIAHLGCLQEMAGIFGTICARWSSSRKSTSTGGILLAC
RSMGLL

The following DNA sequence Seq-2600 <SEQ ID NO. 19> was identified in *H. sapiens*:

TATGATATTCAGCCATGGTGCTGAACATTCCAAACAGCATAAATGCACCAT
GTGTGTATGTTTCTTGGATGCTGTGCTTAGAGGGTAGCAGACAGGGTGC

AAAGTGAGAAGGACCTGGCTCTGCACCCAACACTGCCAGTATTGAATCCTGA
CTCCATCATCTGGGAGCTGTGCAACCTACGCAAGGTACTTGGCCTCAGTTCC
TCATCATCCCCATGGCATTGTGAGAATTAAATGAGCTGAAACCTTGAAAC
CCCTCAAACAGCAGCTGGCACAGAGGAAGCACACAATCAATGTCAGCTGTA
CTCTCCTGGCAGTGTGGAGATCCCAGCTCTGCCCTAGCTAGTCACCTCTCT
TCTTGGAAATCTCAGTTCTTCATCTGGAAATGGGAGCAGATGTGAAAAGGG
GCAGGGTGAGAATACATATGAAAGTGTGGCTCCTGGTCATAGCAGGCAC
TAATAATGATAACACTTTCCATCTTCTGCCTCCCCAGGGATGCATTGTGCCA
TGTAAGAGAGAGAGCCTCCAGGGTTGGCGAGAGTTTGATCCAGGCTTTTC
AGGTGTCAAAGATGAGCTGGGTGATTCTCCATAGATTTCCTTCTAACAGGT
GACAGTTCTGTTCAGAAATACTGTGGATGTTCAGGTTACAGCACAT

The following amino acid sequence <SEQ ID NO. 77> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 19:

VLTTSTVFLKQNCHLLERKIYGESPSSSLTPEKAWIKNSRQPWRLSLLHGTMHPW
GRQKMEKCIIKCLLCTRSQHFHMYSHPAPFHICSHFPDEGTEIPRREVTSGQSWD
LHTARKSTADIDCVLPLCQLLFEGVSRFQLIFSQKCHGDDETEAKYLAVAQLPD
DGVRIQYWQCWVQSQVLLTLHPVCYPLSTASQRKTYTHGAFMLFGNVQHHGNI
I

The following DNA sequence Seq-2601 <SEQ ID NO. 20> was identified in *H. sapiens*:

TTTATGCTCATGTAGTTCTTCCAAGAAGAGAAATTACAGAGTCAAATTGTAG
AAATATTAAAAATCTTGGCACACATAAACAGTATCCATATAATTATACCA
TCTTTAGATGAGTTAACACCAAATGATAGAAATCTCAGTTCATACAGAT
TTGGTGGGCTGGAACCAAATACTGCCTGATAGGCTGTCCCCTCGTCTTCCT
AGCTGTTCTGGAAAGGCAGTTCTGGTAAGAACTCTCCCTACGGCCCTTTC
ATCTCACTGTTCTCAGGGCATAGATAAGTGGGTTGAGCAGTGGGTTCCCA

ATGTGTACACCAGTGAGATGAACTGATCTGCTTGGGGTTGTAGCTGGAGCT
GGGGCACAGGTACATGAAGGCACAGCAGCCATACTGCAGCAGCACACAGT
GAGGTGGGAAGAGCAGGTGGAGAAAGCCCGGTGGCGGCCAGCAGCCGAGTG
GATCTTGA

The following amino acid sequence <SEQ ID NO. 78> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 20:

KIHSAGRHR~~AFSTCSSH~~LT~~V~~LLQYGCCAFMYLCPS~~SS~~YNPKQDQFISLVYTLG
~~TPLL~~NPLIYALRNSEMKGAVGRVLTRNCLSQNSERRGDSLSGKYLVPAHQICMK
LRFLSFGVKTHLDGINYMDTVYVCQRFLNISTILCNFSSW~~K~~E~~H~~HK

The following DNA sequence Seq-2602 SEQ ID NO. 21> was identified in *H. sapiens*:

TTAAGCCACCCAGTCTGTGGTCTGTTATGGCAGCCCAAGCCAGCTACTA
CAGGGTGGGACGAGGGGAGGAGCATGGCCTCTGCTGGAAGTGCAGGCAAAT
GATCCCCCAGGAACAATGATGGGAGCTCTGATTGCTCTCATTATCTCTGCAA
AGTAGGAAGAAAGATT~~C~~ATCAGCTGAGCATGAGGATGGTAGAAAACATCTT
GGGAAATT~~C~~AGAAGTGAAGGAAGGCATAAAATAGTCATCTAAAAAAAGCA
GGAAAGGGAAAAGACAGAGAAATCCAGTATGAGTCCCAGGACTCCAGGAAG
CATCAGGACCCACTGAAATTGCCAATGCTGAATTAAAATGAGGCCAGTCT
GTACAGAAGCACTTCTGGAATTGCTAACAGCTAAATAGAGTAGAATCAATA
CTTAGAGAATACGAGTAACCAAAGGAATAAAATTAACTGATCAACTTTGT
GGTTTTACTATTAATATTTCTTCAGTGTAAATCATAGCTGCCTGAATTCTG
AACCCCTCTATATAAACTAAAAAGCTCTGGTTATCATGGTGAAAATTCA
TGGCTAACTTATCAGGCAA~~ACT~~GTCCCTAAAGCATT~~TTT~~GAATAGCTTAGT
ATCAAGATGGTACTGAGTGTACATT~~C~~ATTCCCTGCTTAAAGGAAGGCTTAG
TTATTTAAACCAAGTCTTATTTTATAG

The following amino acid sequence <SEQ ID NO. 79> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 21:

IKIRLGLKLSLPLSREMKCTLSTILILKLFKKCFRDSLPLDKLAMNFQPTRAFIYIRGVQEFRQLFTLKKILIVKTTKVDQLLILFLWLLVFSKVLILLYLAVSKFQKCFCTDWPHFKFSIGNFKWVVLMLPGVLGLILDFSVFSLSCFMTICLPSLLKFPKDVFYHPHAQLMNLLSSYFAEIMRAIRSSHCSWGIICLHFQQRPCSSPRPTLLAWAAITEHHRLGL

The following DNA sequence Seq-2603 <SEQ ID NO. 22> was identified in *H. sapiens*:

ATTTCTGGATTATGCCTCCCTGACCCATTCCAGGATTACCCAAACCTTC
CACACTCTCTTAACAGGGAAAGTTCTGTTATGACACAATAGTACTTATTAA
GACAGATTACCTTCTAACGTCTCAGGACAGCATTCACAACCAGAAATACTGGCACATGAAGAACCACCAGGAGTCTGGTAGTAGTGA
AAAAAGTGGATCAAAGGATTCAAACACAGCAAGTGGTGAATCAATGAAAAGTG
GTAAAATGGTGAGGAAAAAATGTTACTAAAAGATGACCTCAAGATTACTGGT
GCATATGAATTGCTTTTATATAGGAAAACTGGATAATTCTTATTGTCA
TAGTATAATTAGAAGCAATTCATGTGTTCATTGCCACATGAGTTAAATG
GAATAGATTGGTCCCTCTAACATGAGTTCACTGCTGAACTGGGCAAATTC
AAACAAATTCTGAGCTTCACTACCTCTGCTGAAAGTGAG

The following amino acid sequence <SEQ ID NO. 80> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 22:

SLSSRGSEAQNCLIECPSSDTELMLEREPNLFHLSNCGKMNTNCFLYYDNKKLSSI
FLYKKAIHMHQSGHLLVTFFPHFTTFHFTCCLNPLIHFFKKENEFHYYQTPGSS
CDQLFLVVKCCPETKVNLSVLLCHNRTFPVRRECGRFGVNPQMGQGRHKS

The following DNA sequence Seq-2604 <SEQ ID NO. 23> was identified in *H. sapiens*:

CTTTGGAATTATTCTAACATCAATCAAGAGGTATAGTACGAGAAAGGTA
GAACATGTAATTATAAATTCAAGGATTCAAGGAAGTTATTTCTCTCTTTA
ATTCTCTCAAAATGATCTGATTCTGCAAAGTGTAGTATATCTGGTAAGTA
AGAGTCTATTCTTTAAACTTCATCTGTATTAACCAGCTTATATGACCAAA
ATGTCCCCAAATTAAATCTTGACAGTAAGGCCTATATGTACACCTGGC
CTCATTCAAAAGACTAAAGCAGTTCTCAAATTCACTGCACATTAAATAT
AAACTGGAAAATGTTAAGCTCCTGATGACAAAGCCACATGTGAGACTAAT
TTATGCTGAATCACTGGCCAAGGACCCAGGTATCAGCATTAAACTAT
AGAGGAATAACCAGGGTGAGAACCACTGCACAAATGGTAAATGCAACTTT
TATTAAAGTTATTTTTAAATAAATAATGGTGAATTGATACTGATCTTAGT
ACCAAGTCATGGCAATTTTCAGACTAGAGAATTCACTGCCTGGCATTGAGAT
TATTAAAGAACCTAGAAATCCAAGTGTGTTATATTTCTGTAAATAT
TAGAGTATGCTAGTGCTCATCCTATTGATAATTGGAAAAATATATTAAA
ACATT

The following amino acid sequence <SEQ ID NO. 81> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 23:

LEFYSKHQSRGIVRERNMLIQDSGLFFSSFSQNDLDSCKVLVYLVSKSLFLLNFI
CINQLYMTKMSPKFKSLHSKALYVHLASFQKTKAVVLKFSTLITGKLFKLLMT
KPHVRLIYAESLGQGPRYQHFLKLRNNQGEPLHKMVNATFIVIFFKIMVELILILV
PSHGNFFRLREFILRLLKNLEIQVFLIFFLILEYASAHPYLIILEKYIKTF

The following DNA sequence Seq-2606 <SEQ ID NO. 24> was identified in *H. sapiens*:

ATTATCATTGAATGTTGATATTACATCATATACAAATTGATTGCAACATAGT
TATTAAATGTAACATTCTATTAAAAGATAAATTATCAGAACATACATTG

CTACAGTAGTCTCCCTTATCCACAGGTTCATTTCTATGGTTCAGTTACCTAC
TGTCAACAAGGATCCAACAATATTACATGGGAAAATCACAGAAATAAACAGT
TTGTAAGTTTAATTGTGCGCTGTTCTGGCAACGTGATAAAATCTCATGCT
GTTCCCTCTCATCTGCCTGAACATGAATTATCCTTGTCCAGTATATCCACAC
TACATATGCTACCTCCCATTCATCATTTAGTAGCTGTTGATTATCTGATAG
AAAAAAACACACAGTATATAGAGTTTTATGGGGCAAGGGAAAACTTCT
CTTGTCCTCTGAAGATTCACTGAAAACACTCAACTCACAAGGGCAGACTAATA
GGAATGAAGGTAAAAAAAAAATATTAACATCAATGGAGATAACTACAG
AGTGATTATTCCATTGCCATCAATGGACTACAGTGGCTAAATATCGTTTGA
GGTTACAAAAAGAGTGGAGTCTGGGATCTGGCAAAACAGGTATGGGAA
GAAGAGAAGAGAAACCTGGTTAGCAAAGGTATCTGTGATGC

The following amino acid sequence <SEQ ID NO. 82> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 24:

IIIMLILHHIQIDCNIVCNILFKINLSESYIATVVSЛИHRFIFYGFSYLLSTRIQQYYM
GKSQKTVCKFFVRCSGQRDKISCCSSLSCNMNYPLSSISTLHMLPSHSSFSSCFD
YLIEKTHSIYRVFYGARENFLVLRFTENSTHKGRLIGMKVKKKIYHQWRLQSDY
SIAINGLQWLKYRFEVTKRVEVLGSWQNRLWEEKRNPQQRSSCD

The following DNA sequence Seq-2607 <SEQ ID NO. 25> was identified in *H. sapiens*:

TTTTTCCCCCTGAGTGTCTCATGCTTCCCAAATGGAGATGGAGAG
GTTTCACCTCACTTTCTCTAACTCTCCCTAGTTTTGGTTCTTCCAC
ATCTAAAAGTGTGCAGAATGCCCTTAGCACATAGAAAATCTTCTGACC
CTGCCACCTACTAACTAAACCCACACTTTCTTCTTAAAGATTCCT
TTATAATGGTGTGTCAATGCCACATCCACCTTATCCATTCTTAAAG
TTCCAGAAAAACGGTTTGTCTGTTACTTAATGGAATTATTTCCAAAG
ATCAACAGGACTTCCCTCAAGCCCAATCCAGTCGGTAG

The following amino acid sequence <SEQ ID NO. 83> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 25:

FFPLSVSMLSSKWRWRGFTSLFSNSPFFGFFSSTSKSVQNVPLAHRKSFLDPATY
LTKIPHSSSFKISFIMVCVNGHIHLIHSFLKFQKNGFVSCYFNGIIFPKINRTFPQAQ
SSR

The following DNA sequence Seq-2608 <SEQ ID NO. 26> was identified in *H. sapiens*:

ATACATGATAAGGTACATGGATCCAGGGAAAGGATGAAGGGCAGTGTGGGA
TTGCTTTGAATTCTCCAAACTCGCCCATAAAAGCAGACAGGGACAAACTAA
GATAACTAAACAAAAAAACCCACAGACAAAACATTACAAACCCAAAAGA
AGTGTGGTGGGAACAAACATCTGATAGAATCAGACACATTACTGGTGACCGG
ACATAAGCCCTGTTAATGAGAAGCTTACATTAGGAGAGTCAATTAAGTACA
CGCTATACACAAACCTAAAGTGGTAAATGCTACCTTGGTTATTCAACTTCAG
TTACATGCCTTGAAGTGTGGGTGCACTGGCCTGAACCATTCTGGTTGTGTTT
GATTCCCTAGGATGCCACCAACAAATAACATTGAGAAATACCCAGCTACTTT
CATTGTTCTCCAATGGCAGCAAAGTACAAATGATCTCTATGA

The following amino acid sequence <SEQ ID NO. 84> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 26:

IEIICLLPLENNEKLGISQCYLLVASGIKHNQNGSGQCTPHFKACNSEVEPRHLPL
VVYSVYLIDSPKCKLLINRAYVRSPVMCLILSDVCSHHTSFGVCNSFVCGFFCLVI
LVCPVCFYGRVWRNSKAIPHCPSSFPWIHVPYHV

The following DNA sequence Seq-2609 <SEQ ID NO. 27> was identified in *H. sapiens*:

TCCAGGCAGTATTCTCCATGACAATGAGGAAGGTAAGTCTGCAACAGAAGAA
CAATGGCAGAAATTAAAGAAAAGTTACCGCCTGGGACTATGACTCACCTTT
TGGGAGAAAATGTGACTAACCTTGTAAAGAGCTTGTGAGAGCTCACTTCC
TGGGAGGAGTCGGAGAAGGGAGCATCAGCTGACGAAGAGGTGAAGGAGG
TACCCAACAAGAAAAGCGTAGAAGGACCAGGGATTGGGTCGGTCTTCCT
CCTGATTCCAAGGGATGGCATAAGATATTGCCAAGTGAAGGAAGCGAAGTAG
AGCCAGCAAAGGAAGGTGAACGTGTTCTTCAATTAGAAATAATATGTTGTGAT
AATTATAACAAAGTACTAATTAGTAAATTCTTCCAACCTCGACACTCCAAAA
ATCCCTGTACTTATATCCGAAGGCCTCTTCTCCCCAAGCTGGAAGACACGG
TCACTCATTAGTCACCCACTGTCACAGGAGTAACAGAGACTACAAATATTGG
ACAGGACATAAGTGAGGGTCAAGCATTGGATGCAGATGCATGACAGGATG
CAAGTCTTCCCAGCTCTCATGGACTTGCACAGATGCACAGAGTGAGGTA

The following amino acid sequence <SEQ ID NO. 85> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 27:

TSLCASVAKSMRAGKTCILSCICIQMLDPHLCPVQYLSLLLQWVTNEPCLPAWG
RRGLRDISTGIFGVSRLERNLLISTLYNYHNILFLMKQQFTFLCWLYFASFTWQYL
MPSLGIRRKTRPQIPGPSTLFLGTSFTSSADAPLLPTPPRKVSSQQALTKGSHFL
PKGESSQAVNFSNFCHCSSVADLPSSLSWRILPG

The following DNA sequence Seq-2610 <SEQ ID NO. 28> was identified in *H. sapiens*:

ATTAATGCCTGAACCTCCCTCAGCTCTGAAACTCTGTGGGTATTCTCTGAG
GACATTACCTCTCAAGGGACCCAAATTAAACAGCTCACACCATCCATCATT
TTCTGTCTGAGGTTTATTCCCTAACATCAGATTGGTAAATTTCAGCCTCTC
TCTGTCTCTTACTTCCAATCCAATAAAACCTGTATGGATTGTTGTATTCA
TCTAACATGTCATTATTCAATTCTAACAGAGTCACTGCCTGACCATTCCCTGCCTATA
GCATAATTAGCTATTAAAAAGCTACACTGGCATGGTTTCAAACTTGCATCCT

CTTTTCTGAGGTGGATTGATTCTAAACTGATTAAAATATCTCAGAATTCCA
ATACAATTAAAATGCAACAGATTCAAGACTGCCTCATGACTCTGCCAA
GCCAAGGGAGTTAGCTGCCAACTCTCTGACTGCCAAGGAAGCCAATAAA
TAATCCTGATGGTGGTTAAAATGAGAGGCAAGTGCCATTCTTAGGTTGA
CAGTGCCACCCCTACACATTGACTCTCCAGGGTTGTAAGACACCAAGGGTG
ATGTTCAGATTCCC

The following amino acid sequence <SEQ ID NO. 86> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 28:

LNATPFSSETLWCILGHYLSKGPKLNSSHPSFFCLRFYFPNQIWVNQPLSVSYF
QSNKTCMDLFCISSNVIIHSKSHCLTISLPIALAIKKLHWHGQTCILFFGLILNLK
YLRISNTIFKMQQIFKTASLCQAKGVSCQLSLTAKEAKIILMVVLKEASAHLGQC
HPTHLLQGLDTKGDVSDFP

The following DNA sequence Seq-2611 <SEQ ID NO. 29> was identified in *H. sapiens*:

TCCACATTCTTCTAAAGTTCTGAGCTTCCATGGGCTTCCATGGTAGGGAA
AGCACATGGCCTGGGTGTGGGTAGAGCAGGTGCGGCCATTATATGTATGGT
TCTTGCAAGTCTGGCATTGTAAAATGGGTGATGCTGTATTGTGTTATTAA
TTCAATCATGTAATAGAAGATGCACATAAGATTATTTGAAAAGTATGCCTTC
CATTTCATGCTGAGAATAATGCAGGAAGTCAGTGTAAATGCAGTTATAATA
AAATAGTAGCAAAACAATATTTGCTTAAATCATGGAATTAGCAAGTAAAG
ACTAATTGGAAGCCAATCTTGCAAATTTAAATGTAAGTTATTGGAG
GATATGACTTGGTGGCCAGAGTACATATAAGAACAAAAGAGTATAATTAA
CAACAGTTCAAATATGGACTTACCAAGGCATCTGATAAAATCAGTATTGAC
ATGTATGTGAATGCCAACATTGTGTTTCCAATTCAACTATGTTATGCCA
TAAAATGGTAGCAGTTATGAAAATTAGAATTGGTAAAAACTGTTGAAATC
TTTAAATTTCCTGTTA

The following amino acid sequence <SEQ ID NO. 87> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 29:

NRKNLKISTVFNQFFSLPVLWHNIVLNWKNTMLAFTYMSILISRCLVSPYLKL
LLIILFCSLYVLWANKSYPPNKLTFKKFAKDWLPISLYLLIPFKAKYCFATILLHY
TELPALFSAKWKAYFSKSYVHLLLHDINKHNTSITHFTNARLAKNHTYKWPPLL
YPHPGHVLSLPWKPMEKLRTLTERMW

The following DNA sequence Seq-2613 <SEQ ID NO. 30> was identified in *H. sapiens*:

TACGTGGTTCCCTATCGTCCTCTTCAATGAGTTCTTGTGAAAACAGAAAGA
CTGAGTCTGCCAATAACCAGCAAGAGAACAGATAAAATAAAATTAA
CCATAAGACTTTAACATATGACAAACAACTGGTAAGGATTTCAAAATCTTT
GGTCAACTTGATGGTATTTCCATACAATGAACCTCTAAATGAAAAACG
TACATCCATATTTAGATATAAAAGTCTCTGCACAGGCCAGAAAATGAAAC
TTAATTAAAGCAATAAAATTCCCTTGACTGCAAATGGAGAACATGCT
ATCTAGCTCATTTCCTCAACTTACATAAAATGAAACAATGGTTATGTT
CTGGCGGCATCTCTAAACATATTCAAGTGAACAAAATTCCCTACAAATGTCA
ACAGCTTACAACAAATAACATTCTGTTAATTATTTAGAAACAAAATC
AGTTATGCTGAGATATGTTGCATGGGATTATATACTCTGATCATAGAAACA
AATTATTGACATCTGAATCTGAAAGCTGAAAACATGATAAAAGACATAATA
AAATCACAGATTGTTATTCTCTCAGGAACCTTTCTAG

The following amino acid sequence <SEQ ID NO. 88> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 30:

KKFLREQICDFIMSFIMFCSFQIQMSIICFYDQSIIPCKHISALILFLNNTGNVICCKL
LTFVRKFCFTEYVRCRQNINHCFIFMVEEKSIACSPFAVYKGEFYCLNSFIFWPVQ

ETFISKIWMYVFHILEFIVWKNTIKVDQKILKILTSCLSYVKVLWLILFILSCSLAG
YWQTQSFCFHKELMKRTIGKPT

The following DNA sequence Seq-2614 SEQ ID NO. 31> was identified in *H. sapiens*:

GGTGCCCATGCTTGGTAGGATGTATGAAGCTCCTGCTCCTCCAGCTGGG
CATCCTGCCACTTGCTGAGCAAATAAGGAATGTGGGAAGCAGCAGGCCAC
CAGCCAGATGAGGCCACTGCCTCCAGGCAGCCCCATGGGACATGAAGGA
GAGGTAGCGCAGTGGATGGATGACTGCCAGGTAGGTGTGCAGCACAATGGC
GGTGAAGGACAGGATGGTGCTGGCAGGCAGCGAAGACAGCAGTCAGTGAG
AATGCCACAGGCCATCGGCCAGCTCCCAGCCACCCAGGCTGGAGGAG
ATGAGCATGTGGAGGAGAATGTAGGCCAGGTCTGAGAGCAGGATGTTAGCC
GGGAGCAGGTAGTGGGCTCCTGTCGCAGCCGTTGGTCCGCAGGATGGTCA
CCAGCAGCAGGGGCTGACAGCCAGTGTGGCTGCAGCCAGCAGGCTTGAGG
GAAGGAAAAGCCAGTACAGCATGGAGCTGGCACCCTGAGGTCCCCCAGGC
CCAAGGAAGTGGCTGGCTGGCTGGCATGCAGGGTGTCTGCTGATGAG
CTGGATCAGGGCCGCCAAGCTGTAGTGCCCACAGGGCAAGGTGCCAGCTCA
TCCCCCATGCTCCTGGCAGGGATGGCTGGCTTGT

The following amino acid sequence <SEQ ID NO. 89> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 31:

QSQPSLPGSMGDELAPCPVGTAWPALIQLISKTPCMPQAASNTSLGLGDLRVPS
SMLYWLFLPSSLAAATLAVSPLLVTLRNQRLRQE~~PHYLLPANILLSDLAYILL~~
~~HMLISSLG~~GWELGRMACGILTDAVFAACTSTILSFTAIVLHTYLA~~VIHPLRYLS~~
~~FMSHGAAWKAVALIWL~~VACCFPTFLIWL~~SKWQDAQLEE~~QGAS~~YILPPSMGT~~

The following DNA sequence Seq-2615 <SEQ ID NO. 32> was identified in *H. sapiens*:

AACACTGACTTCTCTGAAGCAGTTGTCTAAAAGAACCTACACCATTTTATT
AGCAAAAAGGCTTTGTTAAAAGCAGGGGATAGCAGAAAGAGCTTGTAAA
AAATATGTCATGGATTAGGAGTTCTAAGAGCAAGAAAACGTTCTTAAAT
AGAGGAATGAAGCAATTAGAGTTCCATAAAAATCACCTAATGGGCCTTCAA
AAGGCAAATGCTAAAGCCCCAGAAATCATCACTGAGGAAGTCTGAAGTAGG
AAGAGACCTTGTCTAGAAAGCCGACAAGGTAGAAATTAAAATGGAACAGG
CCCAACTTGAAATTCCGAGACCAAAAGAGGAGCTGATGACATTGGTGGGAGA
CAGGTGTGGAAATAAAGAATGTTGGTAGATTCTAGAGACATTCCAGCGATAA
CACAGACAGGACTTGTGACTGACTGTATGGGGCAGCTGCAGGGTAGGAGA
GGAGGAACGATTAAGACATGATGAACCTGGCTATGAGTTGGCAGCTCCATT
ACTCCAGAGAACACAGGAGGTGAAATCATGGAGACTTGATGAAAACACT
TTGAGAGGCACCATGGGATAAAAGCCAGAAATAAGGTGGAAATGGTGG
AGCTATTCTAGAAAAGAGGGTGGAGGATGAGCATAAGTTAACAGGA
AACAGTTAATTTTAAAAGTGCT

The following amino acid sequence <SEQ ID NO. 90> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 32:

HFKINLPVNLCSSHPLFNELPPPTLFLAFIPMVPLKFSSSLPFSPPVFSGVNGA
ANSPSSSCLNRSSSPTPAAAPYSQSQSPVCVIAGMSLESTNILYSHTCLPPMSSAPL
LVSEFQVGPVPFFLPCRLSRTRSLPTSDLSDDFWGFSICLLEGPLGDFYGTIASF
LYLRNVFLLLETPKIHDIFFTKLFLSPA FNKSLFAKKWCRFFTASEKSV

The following DNA sequence Seq-2616 <SEQ ID NO. 33> was identified in *H. sapiens*:

TTTCCCAGATAAAATTGTATGCACAGTAACGGTGTGCAGTATACCATAGCAT
ATATACATCCATTGGCACACTGCAGGTGCCAGTGGACAAACATACCAAGAGT
GTAAGTCTCCTGATCATTTCATGATGTCCTCAGTTATTACCTTGTAAATAAG
CTTGTAAACGTCTATGATTGTTTGAGTCATCCCAATGCAGTCATGTAATAA

CAACATGTATTAAATGAAACTGGGGATTTCCATACCTGAATCTCTA
GTATTCACATAAATGAAAAATCAAAATTAGGATAAGTTAGTGTCAAACATTA
ATGGATTTCACAATGCTAATTGGTGTCTTTAAATTATTGCTGCCTACAG
ACACATAGCTATAGTCCATGCACCTCAACCACCAATGCTGCCAGGCTAGTA
AAGCAGTTAATGTATATTGGGGTTAATTATCAGAATCACCAGAAACAATT
TTAATTAAATTTATTTTCCACAGATTATTGGGTACAGATGCTGT
TTGATTACATAAGTTCTTACTGGTATTGAGAGATTGGGTGCACCCAAACA
TCCGAGCAGTATACTATTCCCTATG

The following amino acid sequence <SEQ ID NO. 91> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 33:

FPRIVCTVTGVAVYHSIYTSIWHTAGASGTTQSVSLPDHFHDVLSYLPCKL VN
VYDCFVIPMQSCNNMYFKNLGIFLHTISSIHINEKSKLGVSVKHWIFTMLIGVPFI
IAAYRHIAIVPCTFNHQCCQASKAVNVYLGIIIRITRNNFFNFNILFFHRLLG YRCC
LITVLYWFERFGCTQHPSSIHYSL

The following DNA sequence Seq-2617 <SEQ ID NO. 34> was identified in *H. sapiens*:

CGGGTTATTAAGAGAACCACTTGAAATACCACCTCCTGGTAACACCA GCTCC
CTCCACCCCTGAGCTCACGGTCTTCCCTGTGAGATGCAGCACCA GGTAAAG
GTCATTAACAACCAGGTTAGAGTAAACAGTGCTGGCTGTATTCTGATCCT
GCCTTCCCTAACTGGGTGCTTTGGCAAGTTATTAGTTACTCATCTGTAC
AATGGGTTACACTTATGCCTTTACATATGGTTGTTGCGAAGATTGAGTGATA
TGCATACCAAAAATGCTGAGCAGAACACCTTGTCCATATCTTCCCTCTGT TT
ATTAAATGGAGGCCTTAAGGTTAAGTAATTGTTATTGTTGGTTAATT
AGTCCTCTGAATTAAATCTAGTACAAATTGTGCTGCATTGGCACATGGTAC
ATGTTCATGAATATTGAGTGTGTATAAAGGAATGAAAATCAATTACATGA
AAAGAAAATTCCAAATCTTACATTACAAACACAGACACAAAGAATACTAAG

ATTTAACTCAGGGGCAAAAGTTAAGATTGGCCACCAGCACGTGGTGAGCTT
CCTTGAAAGTTGTTCTGGC

The following amino acid sequence <SEQ ID NO. 92> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 34:

GLFREPLEIPPPWHQLPPPPELTVSSLDAAPGKVINNQVSKQCWAFLILPFPNWV
LFGKLLSYFICTMGYTYAFYIWLLRRLSDMHTKNAEQNTLSISFLSVIKWRPLRLS
NLLLLWLILVLILYKLCCIWHMVHVHEYVLYKGMKNQLHEKKFQILHFTNTDT
KNTKILRGKSDLATSTWASLKVCFW

The following DNA sequence Seq-2618 <SEQ ID NO. 35> was identified in *H. sapiens*:

ATTCTAATGGCATTAAATCCATAGCATTATCTCCATCTCTGTTTAAATATCATG
CATCCTCATTCTATGATTCAATTAAAGGAATCCTTCAAAAGGATCAATCTAA
ATAAATAACAAGTTAGCTTCAGGCAAACAAATAAATTGCTTGTTATAT
TCACCATAAATATTCACTTAATTACTGAGGTACCTGTTCAAGGAAACACAAA
ACAACATTATAAATTAAATTAGCACTGTCCTGCTGACGTTAGTCCTGTGGA
ATGCAAAGCTAAAGTAAAACAGGCCATGAAGCCAACCAACCAGAGCACACA
TCGTATGCAAATGATAAAGCCCACAAACATCATGGGATCATTCTGGGACAT
TCTGAATCACCAAAATTGTCTTAATCAAGTATTGCCCTATTATTTCAA
TTCAA

The following amino acid sequence <SEQ ID NO. 93> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 35:

LNLKINRAILDRQNFGDSECPRNDPMMFVGFIICIRCVLWLGFMACFYFLLHSTG
LKRQQGQCLIYNVVLCLFLNKVPQLSEIFMVNIKQSKFICLPESLVIYLD**S**RIPLNII
EGCMIFKTEMEIMLWINAIR

The following DNA sequence Seq-2619 <SEQ ID NO. 36> was identified in *H. sapiens*:

TTTGGGTCTAGAATCCCCTGGTTGGGAAGCATCCAGAAGGAGCTTCCATCC
CCATCCATTCTGCTCACTCCTCCTCTAGCTTGTACATGTCTCTCGAT
ACCTAGACAGAGGCAGAGGCATGGACTCTGGTTCTAATCATTCAAGCCTA
CACGTCCTCAAGGCTCCATTAGAATTATCTTCCTCGGGAGTCTGCTTCT
CCTATTCAGGATTACTGACTATTCTCTTATCTCTGTAAACATTAAATATCCC
ACTCCTTAGCATTAACTTTAACTTGCTTCTAATCCTGAGGTTGTGTTCT
TTGCCTTGTAAAATTCTTGAAATGCCAGCCCAGTACGTAGCCCAGTCCC
AGCACACAGTAGGCAATTGAAGGAGCTGGGACAAAAAGAGTTCTTGTGTTGA
ATTTCTTTACTGCTCTGAGTTACTCTGTATTGCACATGAGTTAAATGTTT
TGGGCCATTGAACTATTGAGAATCTAGAAGATAATACACCTCTTCAGAA
AAACACATATGAATAACACACACACATGCCACCTACACACACAATTGCA
TGTAATTAAAGGATTCACTAACCTTAGCTTACCAAGACTGTAAGTTCTTGC
ATATT

The following amino acid sequence <SEQ ID NO. 94> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 36:

YAKELTVWAKVNESLKLHAKLCVVACVCVSYVFFKEVYYLLDSQIVQWPQNI
KTHVQIQSKLRAVKEIQTNSFCPSSFNCLRGAWDWATYWAGHLQRILQGKGT
QTSGLESFKSCGVGYMLQEIRESVNPEIGEADSPRKDNSEWSLEGRVRLEPE
VHASASVVSRDMLKLERRKARNGWGWLDDASQTKGILD

The following DNA sequence Seq-2621 <SEQ ID NO. 37> was identified in *H. sapiens*:

GCAAGTTATCTGTATTATCCCCCTACAAACACACACTCCTAACATACAGTGG
TGAGAGAGGAACAAACATAACTGCAGAGGAAGTAAGTGAGAGACACAAAGCA

GTCATTGGTTCATCGCTATAATGAAATTCTCCTAGACAAATGCTGCCAGGATC
TCTTCCTGGGGATAAGGTCTAGTTATCTTCCTGGAAGTGTTCCAGCTCAC
TATTCTCTACTGTATAATTACAGTGACTCCCTCATCCATCCTCTGTCTCA
GATCTTAACTTATCCTCTAGACTCCAGGCTCCTCTGAGATGTTCTCACTT
TTCTGCAACAAAAGCTGAGTCTATTCTCAATCTGTTGCTGTCCATAGAAAA
TGGAAAGGTTCAGAGGCTTTATTCAATTCTCAGTCTCTTATTGCAAGCTG
GGTCCCATTACTTATATAACTCTTAAAAAGTTTGTGGGCTTCTATGTA
TCAGATAATAGACCACTTCATTGATAAAAAGCCACATTCTTGTGTTCCAGA
CAAGCTTCTATATTGGACAAGTAAGGCCACTTA

The following amino acid sequence <SEQ ID NO. 95> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 37:

KLSVFIPLQTHTPNIQWERNNITAEVSERHKAVIGSLLNSPRQMLPGSLPWGGLV
IFLEVVSSSLFSTVLQLPHPSSCLRSLYPLDSRLLLVLFLQQKLSLFLNLFAVH
RKWKVQRLLFNFLSLFIASWVPFTYITLLKSFCGLSMYQIIDHFIKATFFVFQTSFL
YFGQVRPL

The following DNA sequence Seq-2624 <SEQ ID NO. 38> was identified in *H. sapiens*:

TTATGGTGTGTAAGATCTTATTGCCAAAGAGTCTGTTCTGTCCATCTTATG
ATATCTGTTAACATTAATGATGCTCAGTTGTCTAGACCCTAAAAGAAGA
AGTTGTATGACTTCCATGCTGTTATGGTCAGGAATTAGTTAACAGCTTTT
TGGGGCCTCTAACGCCACAAGGGGATCTGTTCAGTCAGTCAGTAGAGGGCTT
AGGATTATCATCTTAATTACACATTCCCCATTGGTCAAAATATGCCAAA
AGTAGCATCAATAGCCAAGCTTATTCCATATTATTACCAAGGTGGTG
TGGCTATCTCAGATATTCTGTTCTCAATGGGACCCATATAGCCAAG
GGACTTATAGCCAAAAGACTTACAGCCAATTAAACATTCTAGGACAAAGGG
AATGGAGGTGGGAAGGCATTATTCCCTTAAAAACCTTTGAGCAATATA

```
AGAGCCACAAACCAAAAGCCAAAAGTAAGCTTACAAAACCGATTATCTAT
AAGTTCTATGTGTTGGGCCATCGGCTCTAGGCATCTGTGAGCCCATCTTTTT
GGAGGATCTGAA
```

The following amino acid sequence <SEQ ID NO. 96> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 38:

```
MVFVRSYCPKSLFCPSYDICFNINDAQLCLDPKRRSLYDFPCCYQEFSDKLFWG
LATRGSVQSVQRADLSSLIHIPPFWSKYAKSSINSQALISFHIIIRWCGYLSQIYSV
LQWDPYSQGTYSQKTYSQLNILGQKGMEVGRHSLFLKNLLSNIRATNQKPKSKL
TKPIYLVLCVGPSALRHHLAHLFWRI
```

The following DNA sequence Seq-2625 <SEQ ID NO. 39> was identified in *H. sapiens*:

```
AAGGCAGAGGGGGCCAGCAGGGCGGGTTACAGAACCATGATGTGTTTTAAC
TGGACTCACTCTGCCAGTATCTGCCTGACTCTCAGCCCATGTCTCTTTCT
TGTTGTAATACTAATGGGGCATTAAAGGAGCCAGAGAAGGGGCCTCCGACGC
CACTGCTTGTACCTCTGGAGTTACATTAGCGGCATTATATTGTATGTGA
AATTGAAATCCTCATCCAAAATGCAACTGTGGGGAACTCTCATAGGAATT
TCAGCCAATTCTGGCTCC
```

The following amino acid sequence <SEQ ID NO. 97> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 39:

```
GRGGQQGGLQNHDVFLTGLTSASICLTQPMSLVVIMGALRSQRRGLRRHC
LYLWSYIRHLYFVMNSKSSSKMQLWGNSHRNFSQFWL
```

The following DNA sequence Seq-2626 <SEQ ID NO. 40> was identified in *H. sapiens*:

CCCTTCCTCCCCAGCCATACCGTGACCCACCCATAAGCTGGCCCCCTAGCTCTGGCTCACCTGGCTCAGACTTAGAGGTGGCAGGATTCCCTGCTGCTCAGGAAATAAGGACTGCTCTTGAGCTCCTCACAGGCCAGGAATCCAACAAAAGCCAACCAAGGCTACCTTCAGGCCTTCCAGAAGGGGGTGGTAGTGCCTCATCAGGTTCCCCAAGTTAGGGAGAGGGCAGCTGGGCCAGGGCCCTTCCTGTGGCTCAGGATTAGCCCCACTTACCATGGTGCAGCCCCAGCCTCCAGCCAACCCAGCATTAGAGGCAGTGGCTCCTCTTAATGCCAGGCCCTAGTTGGCTCAGGCTAATCCAGCCAGGAAACCTCTCACCTTCCACAGCAATGCCACCCAGTGTGAAAACGGAAGCCGACACAGACATGCCCTGCACCAAGCCGCTCATCTGCATGTGGCATTGTCGAAGGGCCACCCCTGCAATGACAGAGGCCACAGAGTGAGAGATGCCACGCATCAAGAGCCAGAGACTGAAAGCCCTCCAAGCCAGGTCCCCTCTGAGCTTGGATCTTCCTCCATGACCTGCTAGGTGTTATCTGGTCTCTGCT

The following amino acid sequence <SEQ ID NO. 98> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 40:

SRDQITPSRSWRKDPSSEGTLGGLSVSGSCVVGISHSVGASVIAGWPFDNATCKMSGLVQGMSVSASVFTLVAIAVEREVSWLDYAANGLALRGATASNAGLAGRLGLHHGKWGILSHKEKGPGPSCPLPKLGEPEDEDTTPFWKARPWLAFVGIPGACEELKSSPYFLSSRNPATSKSEPGEPELRGPAYGWVTVWLGRK

The following DNA sequence Seq-2627 SEQ ID NO. 41> was identified in *H. sapiens*:

AAACTCCAAACGATAGTAACCTAAATAACTTAGGTCTTAATACTCTCTCA
GTAAAAGAATTCTAGTAGTTGGAGAGTCCACCATCCCTAGGAATGTAGTTCTT
GTCCTCATGGTTCAATATAGCTGCTGATGCTCCAGCCATTACAGCCACATTCC
AGACAGCAAAATATGGAAAGAGAATGAAGAGAAGAAGAGCGTGCCTAGGAG
TCCCATGTATTATTCATATATTTGGGCAGAACCTAGTCACAGGGCCACT
CCATACGTATCTGTTAGCTATTGCTACATAGCAACCACAAAATTCCATGTCA

TACAACACATATCTGCAGGTTGGCTAGGGTTAGTCAGTCCTCCATGCTGGCTCA
GACAGGCAGTTCTGCTCGGGTTACAGTGGCTGAGCTGATTCCATTCTCACT
GCAGGTCTGTGTTCAGTTGAGTGACTGTCCATGTGCCTTCATCTCCTGG
GTTGATGAAAGGAAGGCCACATCTTCAACAGGGCTAGGCCACATCTGTCCTC
ATGGCCCAAAGAGACACCAAAAGAGCAGATAGAAATAGGTGAGACCTCTAA
GGTCTAGACTCAAAACTGGCACACTGCCACGTCTGTTCACAAAGCTATTAGCC
AAAGCATAGATGCATTACCAAGCCCCAAGTCAAGGGCAAGAAGTACAATCC
ACC

The following amino acid sequence <SEQ ID NO. 99> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 41:

TPKRLKRLSLILSSVKEFLESPPSLGMFLSSWFNIAADAPAITATFQTAKYGKRMK
RRRACLGVPCIISIYIWAEPSHRATPYVSYSYIATTKFPCHTHICRLARVQFLH
AGLRQAVLLRVTVAE~~LI~~PLTAGLCFSVT~~V~~PCAFHLPWVDERKPHLSTGLATSVP
HGPKRHQ~~R~~ADRNRDLLRSRLKTGTLPLRLFTSYPKHRCITKPQVKGKKYNP

The following DNA sequence Seq-2628 <SEQ ID NO. 42> was identified in *H. sapiens*:

ACAATAATTGTTGTATTCAAAATAGCTAGTAGTGTAAATGTTCCAATAC
AAAGAAAAGATAAAATGTTGGTGATGCATATTCAAGTACCCCTGATCTGA
TAATTGCACATTGTATACATCTATCAAAATATCAGCAGTACCTCCAAAATATG
CTCAATTATTGTATAAGTACAAAAAAATTAAACAATTATAATGTATTATTTA
TTTCTAAATGGTTATTAGATTAAAATTCTTGGTGTAAATTTTCATAT
ATTACCTTATAACCCTTAAC~~T~~CCTAAATATATTAGGTCTTCATATTTAGAG
TAAAATTCTGAAAATCCTTGAGTATCTGATTACAATCTTCTTCCACTGA
TTTCCCTTAGCAATGGCCTGTTAAAGTGTGATGATGTTACTGAGAAAT
GGGCTGGCTACCTGATGCACATAGAAGCCAATACTATGGCAGTGGTTCTA
GAAAAGAAAAGGCTTACTGTGAGTCTACTGGCAAGGAGACAGGTGGCAAC

ACTCAAATCTGTCTCCCTGAAC TGAGGATGGTGGGGT

The following amino acid sequence <SEQ ID NO. 100> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 42:

TIICCIFQNSCNVSNTKRMFVVMHISSTLILHIVYIYQNISSSKICSIIVVQKNLNN
YNVLFISKWFIRIFKIFLVFNIFFIYIYILIPIFNIFLKYIRISSYIFRVIKFKSIFEYILIQISFLIPLIF
PQWPVSVVMILLRNIGLATCTIKPILWQWFSRIKEIKILLVYIWQGDRWQHSNILSPT
EDGG

The following DNA sequence Seq-2629 <SEQ ID NO. 43> was identified in *H. sapiens*:

CCTCTTACTTGGGCCCGTTCACTAGTCCTTCAGCCAAACTGCCTCACATGCT
ATTCCCAGTATGAAAATCTTGCCTTCCCTTATCTTTCTCTCTCATTT
ACAGCCCTGTGCTAGTTCTTCATTCCCTCAAGTTCTGGCCAAACTTATTAA
CCTCTTGACTGACCACCCATCTAAATAGTACTCATCACTGTGTATCCCTC
AACACACTTATAGGTATGCCATCACCTGATAATGTGTTATGTATTTTG
GTTTACTTGTGTGTTAGTCATTCTGCATTGCTGTAAAGAAATTCTGAGAC
TGGGTAATTATAAGAAAAGAGGTTAATTGACTCACAGTTCTGCAGGCTG
TATGGGAAGCATGTTGCTGGCATCTGCTGGCTCTGGGAGGACTCAGGAA
ACTTACAATCATGGGAAGGTGACGGGGAGCAGGCACATCTGACATAGCA
GGAGCAGCAAGTGAGCAAAGGGGACGTGCCACACACTTCTAAGTAACCAG
ACCTCATGAGAACTCACTATCATGAGAACAGTACCAAGGGATGGTGCTAG

The following amino acid sequence <SEQ ID NO. 101> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 43:

SYLGPVHSFSQTASHAIPISMKILPIPLSFFISLIYSPVLVSSFPSSSGIQLFTSLTPS
KIVLITVYIPLNTLYRSWPSPIDNILCIFWFTCCVSSFLHCCIKEIPIPETGFIKKRGLIDS

QFCRLYGKHVAGICLASGEDSGNLQSWGRRGSRHIHSRSSAKGDVPHTSKPDL
MRTHYHENSTRGWC

The following DNA sequence Seq-2630 <SEQ ID NO. 44> was identified in *H. sapiens*:

AGTATAACAATTCACTGCTTACATCTCTATTTGCTTATCTCAAGTATCCA
CTTGCTGGTATAGTGTGCTCATTCCACAGTTGGCTGTCCGGAAACAA
CAATCTAGTGCAACTCCAGCAATGTGAGTTAGTGCAAATGTCAAACCCAGA
GCAGCATCACCATCTAGAGGTAAAATGATAACTGCAAACCTTCACCTTA
TGAGCCTTCCGTATTCTGTATACATAGCAGTTATGTGAATGTACAGAAAATA
ATGTTGCTATTGTTCTCCAGTTGGGTTCCAGAAAGAGATCATGGCAT
AAAGCAGGAACCACCTGTATTACAGATGGCATAGGGAAGCATACTCGCAG
AGCCATATATCAGCAGCACTACAGCATGTTCAACCAAAGATGAGCCTCCCA
CATGTCAGACAAACCACCTACATTGGGACCACAGCAGTGACAGTGTGTTTA
GCACATTCTGATAATGAAATCTATGTTGAACACTAACATGAATGGCTTCT
TTCTCTGGCAGTCAACAGCCTACACCATTCTGCATTGACTGTTAGTTATT
CTCCCCTCTGGAAAGGCATGACTATGGAAACAGAGTAGAGGATTTGGGG
ATTATGAAACTATTAATATAATTACTCTATTGCTGTGCTTCTACAAA

The following amino acid sequence <SEQ ID NO. 102> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.44:

YNNSLLYISIFCLSQVSTLSGIVCSFHSFWLSWEQQSSATPAMVIVQMSNQSSITIR
SKLQTFSPLAFRILYTQFMMYRKCLLFLSQLQFGKEIMASRNHLYLQMAGSIHR
RAIYQQHYSMFQPKMSLPHVRQTTYIGTTAVTVFFSTFLIMKSMLNSTMAFPFSW
QSTAYTILHTVFILPSGKALWKQSRGYFGDLNYYNLLSLLCFLQ

The following DNA sequence Seq-2631 <SEQ ID NO. 45> was identified in *H. sapiens*:

TCAGCTTATCTGGTCAATAGCTTTCGCTCTGTTGCATACCTTGAGCATATGC
ATCAGCTACAATGTTATAGGTAGCTGTATGGTGGTACACAGCACATGGCG
TACCTTAAAACAATTATAGCACTGGGATTGGATCTGAATTATGTTGCCTT
GTCAAAGTTCCCTCTTGTAAACATGGTAGCCTTAAATATTAGGCAGCTACC
TGCAACACTGGCATTCACTGGGATTGGCTACAGGGTATTGAAAGTCAATTGCTGAGAA
TCGTTCCCTCTGTGTGGTACATCATGTTAGGTTATGCACTAGACGTA
GATAGGAAGCAAGCCAATTGGCTACAGGGTATTGAAAGTCAATTGCTGAGAA
TGATAAAAGACAAGGATAGCCTCTGCAAAGAAGTCTAAGAAGATTCTA
AACGTATACAAGGATCTCAAGAGAACAGTCCCAGATAGCAACACTATTCA
TCTTAGACTATGGCTGATACTATACACTTCTCCAGCTCCTCTGCTCCTCAGAG
CAGAAAACAGAAGATTGAAATGAGCACCACCCAGCTCCTGAATAACATG
GTACCTTCATCTATTCTGGTACTTTATTTCTTTGTTGCTGGATCCCCTA
CATAATTGTAAGCATATCGCAGGCAAGCACAATGGTAAACAGTGGGTGGACG
CTTCCTC

The following amino acid sequence <SEQ ID NO. 103> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 45:

SLSQLFALLHTSICISYNVYRLYGVHSTWRTFKTIIALGFGSEMLPCQSFLFVT
WPFKYAATCNTGHSDPIRLMASCSSRSLSVCWYIMLGLCSRREASQLATGYKSI
AENDKRQGPSLQRSAKKILNVYKDLKRNSPRQHYSVLDYGYYTLQLLCSSEQK
TEDFEMSTTPAPEYNGTFHLFLVTIFFCCWIPYIIVSISQASTMVNSGWTLPT

The following DNA sequence Seq-2632 <SEQ ID NO. 46> was identified in *H. sapiens*:

ATAGAACTGATTATTTGGTATTTTATTCAAATTTCAATTGGATGG
CAGAATGTTGCTATTGAAAAGTGTCTAAAGGTCACCACTGTAACCCCTTCAT
TGTGCTTGAGACCTGCTCAGCTCCTAAATTACAGGGGACGGATCTGAGAA
ACTGACTCCAAGTTGTAACCTCTGCTTAGTTCTTAGGGAGATATCCGT

CTCTCCAAACCTGTCGAAATCTAAATTATTACCTCTTACCTAATACTTGGTCC
CCTGTGGACTTCACTTCACTGTTGTGCTAATAGCCTTTCATCACCATCTTGA
CTTTGGATTCTAGAGCATCACCTACTTCCCCATTTCTGTGACCCTACATTCC
TCCTGTCAGTCACTATGTCTGATTATTGTTCTCCCCTATCTTTGCCCTTGC
AAATCCTCAAGCCCTCATTCTGGTCAGACCTTAAAAGGCTGAGTTACTGGA
GTATAGTGTACCCAAAGTGAGTTGCCATAAAAAATTAGTAAGTTGGAAA
AAAAAAACAAAAACAAAAAAACCCCTACCCATAAAGTTGGTAAATGTTCCCT
GTAAAAAGGGTTCCTGGCCAGGTACATGTTAGAATAGCTGGTTAAGTTCTT
TGCAGAAAGACTTCTCCTGGCCTTCATTGTGACTGTG

The following amino acid sequence <SEQ ID NO. 104> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 46:

RTLYWYFYFKFSIFGMAECCYKVSRSPLPLHCADLLSSIQGTDI.RNI.QVVTSCLV
FFLGRYPSLQTCRNLNLLPLTYLVPCGLHFTVCANSLFITILLDSRASPTSPFSVT
LTFLLSVTMSDLLFSPIFCPLQILKPSFWFRPLKGVTGVCYPKVVPKISKLEKKTK
NKKIPYPSWMFLKGFLGQHVRIAGVSLQKDFSWPSFVTV

The following DNA sequence Seq-2633 <SEQ ID NO. 47> was identified in *H. sapiens*:

GCAATTAAAGTTTGTACTGTATGGACAGTGTGAAAAACATTATGGAAAAACA
ACTTGAAAGAAAATGTGACAGAATTCTCCTAACAAATGTCATTGCTCAACCA
GCTACAAATTCCAACCTAGTTCTTCTTGTGCTTTCTTGTCTTGA
TACAATCATACAGCCTCTCTTGAAGAGATAATAAAAGACTAACAGTTA
AAAGATCTGGAAGACTCATATTCTTCTTCACTGGCTACGGTTGAAA
AGAGGCTGTTGGCTTTGATTTCTTGGTTCTTACATGCCCAATTCA
AACAGGTCTGCTCTCAAAGAAAACAATCAAATTGTCAGACCTGTGAAGC
ATGAAAAATAAATTGCTTTCCAACTCCAAAAGCACCAGAAAAGCATTAA
TTTGATCTTATAAACCTCTATCCCCTATCCTCTAATCTATAGATTCACAG

AATGTTATATATTCTCTGTATAATACAGGAGATCAAACCTTATTATGAATA
AATTGAATTGAACCTGTAATACAACATAATTAAACTAGTGTATTTGGAG
TTCAACTAGACACATATAAAACATTCAAGTGAGATGACACAAATTCTGGG
GCTGCCAGTATAAAATAAACAGTCCAGTAAGCTGCATCTACCATGCCGTTAA
GGGACTCTGTCCTTTAGCTGGTGGGAGCACAGGCTTCATAA

The following amino acid sequence <SEQ ID NO. 105> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 47:

MKPVLPPAKRTESLNGMVDAAYWTVYFILAAPGICVISLEMFYMCLVELQNNTS
LNISCITGSIQFIHNKVSPVLYRRIYKHSVKSIDRIGDRGLKIKINAFLVLFGVGKSN
LFFMLHRSQFFVFFESRPVIGRCKEPKRKNQKPTASFQNRSQKRKEYESSRSFNCS
FISSRKRGCMIVSKTKEETAKERNVGNLLVEAMTLLGEILSHFLSSCFSIMFFTLSI
QYKTL

The following DNA sequence Seq-2634 <SEQ ID NO. 48> was identified in *H. sapiens*:

TCCTGAGAAGACCTGCAGCACAGGGAAAATATGCAAGGGAGGGCCATATA
ACTTTATCTTACTTAATTATTTAATTACTAATTAACTTAAAGTATTAACCTAT
TTTGTGTTTATTAAATCTCTGTGGTGCACAGAATTCAAATTGCAGAAAAAT
CATTCAAGGGCTAACACTGGAAAATCTCTTAATTCTAAGGTACATGACACA
ATGGACTCAAAAACAGTTGCTGAGTCCCTTCACTGGAGAAATTAAAGAAA
GGGTATAGAAAAGTTTGACCAATTCCACCCAATCCTGCATCCCCAATTCAA
TCTCAAGGACCAGTTCCATCTGATCTCTCCACCTACAGATGGTGGCCTG
AATCTCCAAATCAACAAACCAAAACTGAATCCATCATCTTCTCACACCTGG
TTTTCCCTCCAACCTCCCTCATTCTGTGACCTGCCCTAACCTTACCAAGGAA
TCCAGCCCCAAAGCAGGGTGGACTCCTCCCTGCAATGGACACCAGGGAT
TCAGGTCTGTTGCTGGCTCCAAAATGCCACAATGCCCTGTTCTCCCAAATC
AGCACATTCAACAGT

The following amino acid sequence <SEQ ID NO. 106> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 48:

SEDLQHRVKYAREGHITFIFTFILYFLSINLFCFYISVVAQNSNCNSKNHSGLNTGKI
SFGTHNGLKNSCVPFTGEIRKGIEKFPIPPNPASPIPITSFHLISLHLQMVLVNLQI
NKPKTESIIFSHLVFPSNSLISVTCPITLPGIQPPKQGGLLPLQWTPGIQVLLLAPKC
PQCPVLPNQHIQQ

The following DNA sequence Seq-2635 <SEQ ID NO. 49> was identified in *H. sapiens*:

TTTGACTTAACCCTTGTAGCCCAGGTAAATAATCCAAACTCAGCAAGTATGG
GCTGGACCCCAGTAGCTCTGTGGTTGCCACTTTGGCCATATTGAACCGAC
GTCCCCCTGGCATCTACCAGGGACTCCTCAGGGAGAGTGTGGGAATGATGGG
GGAAGACTCGTCACTCTTGATAGAGCGTGGGGCAGATGATAGCAGAGACCT
TCCAGGGCCCAGGGCTGGGTCTTGTCTCCTGGATGTGGTCTAGCGTTGCT
CCAGATGGTGGTTGTGGCAGGTGGGCAGAAGCAGATGATGCAGTTGAGG
CGGGTCTCTGGTAGAGAGTGATGTCAAAGATGAGCACTCCTTATCCCCTGA
CTCTTCTGAGGATGGCTGCCTCCTGGTAGGCCACTGGAGGTCTCAGGCCGA
TCATGCGGGATGGTGGCCCAGATGAGGAAGGGGATCCAAGGCGGTGGCCTTC
CCAGATGCACTGGCCCCAGCCCTCTTAGCTCGGCTGATTACTGTGGG
CTTCAGCAACCAGGGCTACCTGTAGGTCTCACATTGTAAGCACACAGA
ACCCAGTGCATCTTGCACTCAAATGCCCTGATCCAGGGTATTTCTC
ATTCAAGAACACACTTGAAAGGCGGCCATTCCCTCTGGAGAAAGCCTGGA
GAATCTACAGTGCCCTTAATTACAGTG

The following amino acid sequence <SEQ ID NO. 107> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 49:

HCNGHCRFSRLSPEGEWPPFKVCSEENTPGSRAIVHKDALGSVVLTNVETYRAL
VAEAHSNQPKLGRAGAQCIWEGHRLGSPSSSGPPSRMIGLRPPSGSPRRQPSSEE
SGDKRSAHLHSLPETRLNCIICFCPTCHKPTIWSNARPHPRKTRPQPWALEGLCY
HLPHALQKSDESSPIPTLSRSPWMRGRRFNMQKVATTELLGSSPYLLSLDLL
PGLQRVKS

The following DNA sequence Seq-2636 <SEQ ID NO. 50> was identified in *H. sapiens*:

AGATGCCAGACACCTTCACTTCAGCAGACAAGGGCAGAGTCCTGGAAAAT
CTAGGCAGGGAAGACTTGCGCCTCTAAGAGTAAAAGGCCTCCCAGAGAGGA
CATGGATGAAAGGAGGACCACCTCCAATGCCACTCTCAAAGCAGGAAACA
TCCAAATAAAGGATGTTGATTTCAAGGACCCATCCCTCATGAGTGCTTACA
CAACTGGTATATCCTCTCCGCTCTTCCTCTGGTAGCCAAGACCTTATACCA
GTTTGAGTATCCTTATCCAAAATGCTGGGTCAGAAGTGTGTTGAATTCA
GATATTTAAATTGGAATATTATATCATAACCTCTGGTTGAACCTTCCAG
ATACAAAAATCTGGAGTCCAGTGAGTATTCCTTGAGTGTCACTGCT
CAAAAAGTTTAGATTGGAGCGTTCAGATTCAAGGTTTGAAATTGGAA
TACTCAACCTGTACTCTGTCCCTGTTACCTCTACCAAGACCCCTCCCCACA
GGAATGAATTAGATCTGAAAA

The following amino acid sequence <SEQ ID NO. 108> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 50:

FRSKFIPVGEGLVEVEQGQRVQVEYSNFKNLKSETLQNLKLFEHHDTQRKYSLDS
RFLYLEGSTKRYDINIPFKKNINSKHFQAFWIKDTQTGIRSWLPEEETGEDIPVVA
LMKGWGPENQHPLFGCFLLWRVALEG~~GG~~PPFIHVLSGRPFTLRGASLPCLDFPGLC
PLSAEVKVSGH

The following DNA sequence Seq-2637 SEQ ID NO. 51> was identified in *H. sapiens*:

TCATCCTCCGCTGTCTATTGAGCTGTGAGTTATCCACAAAGGAACAGAGCTGAAATGAAACAATTCACCAACAGTAACCTGTTAATCGGGCATCCTTAAGTATGCTGGATTTAACACTGGAAGTTCTTGAAGACTCTGAAAGTTTCTTTAATCGTCATGAGATTTCCAAACTAAGTCATGATATGGATTTCACGTATCTAGCTTAAGTCACATTCAATTCAAATCTAAACCTAAACTGATGGAGCTGGA GCTAGTGACTTCAGGCAATTGGCATCTTCGCTGAATACAAACATCCTATTAAAAGACCAAACACATGACTCCATTCAAAAATTAAAACAGTCATGTGTAGTGAACACAGCAAGAACACCGTCTGAGAAACGTGTCCTGCACACACAGCGTGAATGCACTCACGCAAGCCTAGACGGTGCAGCTGCCGCACACCAGGCCCTGTGGA CAGCCTGTCAATTCCAGGCCCAAGCCTGCATACCATGTTGCTGTGCGGACGCTGCCGGCGCTGTAGCACAATGCTAAGTATCTGTGTATCTCAACACAGAA GAGGTAGAGTAAAGTACAGTATTATGATCGTACGGACCGCGTGTGTACACACAGTCTATCATTGATGGAAGCATCGTTATATGGCACATTACTGCACTGTAAAAAGACACCAAACCTCGGCCGGCGAGTGGCTATGCCTGTAATCCCAGCACTTGGGAGGCTGAG

The following amino acid sequence <SEQ ID NO. 109> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 51:

SASQSAGITGMSHCAGRSLVSFYSAVMCHITMLPSMIDCVYNTRPVRSYCTLYL
FCVEIHRYLALCYSRRQRPAQQHGMQAWGLELTGCTTGPVQPHRLGLRECIH
AVCARTRFSDRVLAVSLHMTVLIFEWSHVFGLLNRMFVFSEKMPIASHLQLHQFRFRFELKCDLSIQKKSISTFGKISRLKKTFRVFKRTSSVKSSILKGCPINKLLWNCFISALFLCGTHSSKTAED

The following DNA sequence Seq-2639 <SEQ ID NO. 52> was identified in *H. sapiens*:

TTCTTCCTTTCTTCAATTATCATTATCATTCTTTGTCTAAAATAATGAAAAAT

GCATAAGGGTCTGTAGAGAGAAGAAAATGTCCTGCCATGAACCTCTGCA
GGTATTATCTGCTTCTTATCTTACTAAAAATAGAATTGAAAGTTTCATT
TTTGTTTTCAATTAGAGGATACAATGGAGATTAGGAACGAATAGAAA
ATAGTTTAAGTCTTACTAGACCAGTAAAAGGTAAGTTCTACTGTAGA
TTCCTGTATTGTATCTGGTTATGGCAATAGCTCGAAGTTCTTCCCCTAT
TCCCAAGCCCACCCAGAGATAAGTAAGTAGTTAACACTTGAGTC
AATACTCCTAGATGCCACCTAACACACATATGTGTGAATGAAAATACAGAT
AAAAAGTAATCTTAAACATAGGAAATGGTGTAAATCCATGCTTTTGACTTT
AATTTTTGTTATTTGGATACCTTCCATGTCAGTTATATACCCATTAA
TTTCAAGACTGCGTAATATTCTATAGTATTGTATTAAACATTTTATGTTATC
GCAATTGGTGACATATTATGTATATGAGTTATTCTTACTGATGCTGAAAT
GAATATCTGGGACAAATTGTTAGGGTATTATTGAGTCCTCCTGGGATT
AAATT

The following amino acid sequence <SEQ ID NO. 110> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 52:

FFLFLSLSFSFCLKIMKNAGSVERRKCPCTSCRYLSCFFILLKIELKVFHFLFFNFR
GYNGDSGTNRKFVFTRPVKRVFLLIPVFVSGCMAIASKFFPLFSPITQRVSSFNTL
ESILLDATTHMCVNENTDKKSLNIGNGVIHAFLTLIFLLFWIPFHVSYIYPIYFQDC
VIFYSIVLTFFMLSQLVTYYVYELFLLMLKISWDKLLGVLFESFLGIK

The following DNA sequence Seq-2640 <SEQ ID NO. 53> was identified in *H. sapiens*:

CTTTGAGGATTTAAATTCTGCTTACTGTCGTATAACACGGGGATTAATA
AGCACCTTACTGGAATCTCTCACCTACCATAATTAGTATGCTATGTGAGGG
AATGAACAGTCTCACACATTAAATAATGACTACTCATATAATGCTTTAATTG
GTAATGACCTATATGAAACATGATATAGAAAACACATTACAGCTCTCAAAT
GACCCCTATAAGTTAACCAATTGCTTAGGTTCTGACAAATTGAATCTGGCC

CCATGCACCTTGCTGGCCCCACAAAACAAGGAGGTAGATTATTTATGAAG
GTCAACCACTCTGGCAATATCACCATTAAATATCAAGCTCATCTGCCCATAG
CTCCTCCATCTTCAGGTCCAGGACTCTGGATTGGAATGACCTACCTCCACATT
CAGTTCTGTAAGTCATTAGGCATCATCCAAGATGGTAGATGATGAATAAATG
GACAATGACTTAAGCTTTTACTCTCATCCATTCCAATGCTTCTTCCCT
GGTCTTGCTCATTATTCCATGTTATTAATATATATTGGAAGAATTATGG
CAGTGATAACAATAATGGCTACAATTTTATTACCTATGTATGCCAGGCATT
GTGCTAAGTGCTTCAGGTATAAGATCTGTAAGGGATTGGTTACATTACAG
ATGGTAAGACTGGGATTTCAGATGTTAGTGCCTGTTAAGTCAATAA

The following amino acid sequence <SEQ ID NO. 111> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 53:

FEDKFLLTVVITRGLISTLLESPTYHNFSMLCEGMNSLTHLIMTTHIMLLIGNDLY
ETYRKHITASQMTPISPIAVSDKFESGPMHLCWAPQNKEVDYLRSSTLAISPLNIK
LICPIAPPSSGPGLWIGMTYLHIQFCKSLGIQDGRINGQLKLFLLSHPFQCFLPWSL
LIISMLFNIYLEEFMAVITIMATIFYLCMPGIVLSASGIRSKGLVTFYRWWDWS
DVSCLFKSI

The following DNA sequence Seq-2641 <SEQ ID NO. 54> was identified in *H. sapiens*:

CTCTTCTCCCTAGGTGGTTGCTGGCAATCTTGGCATTCTAGCTTGTGGAA
GTATCACTCCATCTCTGCTTGATTCTACATGGTGTCTCCTGTGTGCATGT
CTGTCTCAAATTCCCCATTATAAGGACACAGTCATACTGGATTGGGCT
CATTCTAAAGACCTCATTAAATTAAATTCCATAAAGACCCATCTCAAATAA
TGTACATTCTGTGGTACTGGGGTTATGACTAAACATATAAATTAGGGA
GACAAATTGAACCTCTAACAGTACTGAACATCCAGGATGGAAGAACATGGT
ATTAGGTTGAGCAAACACAGTTGCTACGTTGGTTTCCTCACCAAGGACA
AGAAACCCCCAGTGCAGGAAAATTGGAGACATGGAAAACAGGGCTTAAGTA

AACA

The following amino acid sequence <SEQ ID NO. 112> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 54:

SSPVVCWQSLAFLSLWKYHSISVLISTWCSSCVHVCLQISPFYKDTVILDGSFRP
HLIFHKDPISKCHILWYWGLLKHINFRETNLNLQYTSRMEEHGIRLSQTQLLTFWF
SSPGQETPSAGKLETWKTGLKT

The following DNA sequence Seq-2642 <SEQ ID NO. 55> was identified in *H. sapiens*:

TTATTATACTCAACACTGCTAGGAAAGAACATCAGTGATGTTGAAGATATATAT
ATATATATTGCTTGTGTATTGTGTGAGAGACACACATAGAAAAAAAGA
GAGAGAGAAATATATTGGTTGACACTGGCTCTTGAAAAAAAGGCAGTTAG
TAACAATGGCCTTACTAGACAGACATGTTAGAAGGCAGCAGGAGAAAGGG
AATGTGGTATCAGATATTTCTGTAAAAGGTTGTTATTAAATATTCACTGTGGC
AAATTGTAGCTGATGTCAAAGTAGTTAGTATAAAGCAAGGGAACACAATTCTTT
TACAGCAATGTTGAGGTCTAAGAACATAAAACAAATACCTGGTAAGTACCA
TGCATATATACATACATAAACAAATCAATAACTCACAAAACATTCACATATTG
CAACACTGCTTTCAGTTATGCAGTTATTTTGTCTTTAAGCTTTAT
TATAGTGAATGTCTTATTTCAATTAAAAGTTGATATTATGTGAAACAA
CAGTTCTGATAAACAGCAATATCTAGATAAACAGCTATTACTACCTTCTCAAAT
TGATAGATTTCTCCTTGTAAACAAGCTCTGATATAAAATATGATAATTGTTG
AAAACCTTTACACATTCAAAACTAAATTATCATATTTAATGAGACTTGGG
TGTGTATGTGTGAGTGTGTCTGTGTGT

The following amino acid sequence <SEQ ID NO. 113> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 55:

HTDTHSHIHTQLIKYMIIFMCKSFQQIIFYIRACYKEKIYQFEKGKPLSRYCFIRT
VVSHIISKLLMKYKTFTIJKSLKRTKNKLHKLKSSVANMMFCELLIVYVCIYAWY
LPGICFMFLRPQHCCKRIVFPLLYNYFDISYNLPHEYQTFYRKYLIPHSLSPA_AFHV
CLVKAIVTKLPFFKEASVNQYISLSLFFYVCLSHTNTQANIYIYIFNITDSFLAVLSII

The following DNA sequence Seq-2643 <SEQ ID NO. 56> was identified in *H. sapiens*:

AAAACTTGGTTTTAAAGCAAACACAGAAACAATGTAATATAGGTCTTATT
ACATATGTAGGAAATAAAAATAATATGTATGACGACAACAGTAGTCTAAAAT
TCAGGAGACAGAGAATGGAAGTACATTGTTGCAAGGTTTCTAATACACATG
TACAAAGTGGTATAATGTTACTTGAAAGATAACTGTGATAAGTTAAAGACGT
AATCAATGACACTATCAACCACTAAAATAACAACAAAGGATATCGAA
ATATTTAAAAGTATAATTAACCCAAAAGAAAGCATAGAGGAAAAAGGGA
ACAAAGAATAATAGATGGAATAAACAGAAAAACTAGCCAGCTGGTAAATT
TAAAACCGATCATATACATATTCACATTAAATACAAAAAGTTAAACACTTC
AAAGTCAAGTCAGAGGTGTATATTGGATAAAAAGAAAGACTCAACTATATG
TTACCTATAAGGAATGCACTTAAATATACAAACATATTAAAATAAAAGAT
GAAAAGTTATATACAATGTTAATACTCATAAAATAAGCTAATGAGGCTAT
ATTCATATTAAAAGTAGGTTAAAGCAAAGATTAC

The following amino acid sequence <SEQ ID NO. 114> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 56:

SLLNLLFNMNIAASLALFVLTLYITFHLFILICLYISAFLIGNILSLSFYPIHLLDFEVFK
LFVFNVNMYMIGFKFTSWLVFSVYSIYYSLFPFSSMLSFGLIILLKIFRISFVVLFW
LICHRLLLITVIFQVTLYHFVHVYKTLQQCTSILCLLNFRLLLSSYILFLFPTYVIRPI
LHCFCVCFKKPSF

The following DNA sequence Seq-2644 <SEQ ID NO. 57> was identified in *H. sapiens*:

TCAAGTCCATGCTTTACGGAAAGACCCCAGTCCTGCCTCTTCTATATATT
ATCTACCTTGTGGTGAAGAGCATGTGTGCAACACACCTTGCCTGAAATGGTA
TGGTTGGCATTAAATGAATTGTGGGTCCATTGAAAAGAAATCTCCTCTTGT
CTCGTGTATGGACAGTTCAAGGTTGCCTTAGAACTAACTCAAGGAAAAGT
AGCAGAATCGTAGGAAGGGACAATCTTGCCTTCAGTCCCACCCCTGTTCCG
GGCAGGTCTGGGTGGCTATCTTCTGGGGCTTCCCTGCAGAAGAACTT
CTTCAGCATGTCCTGGATTTCCTTCTTAATGGTCTTGTGCATGTAGCCATAGA
CATAGGGGTGGATGCAGCACTGCAGGAAGAAAAGCCAGATGATTATGGTGA
TCACCCACTGGGTACCTGGGTTCGACATCCACCCACACGCCAGGACTGC
TAAAAAGCAGTAGGGCCCCAGGGATAGCACATAGGAGAAAATGATGATGAA
GATCACTTAGCAGCTTGCACTGGTAGCACCTGGCAGAGGAGGGTTGCTG
TTGCTGTTACGACGACTGGGTGGAGGCTCTCCGGATGTTCACTGCCTCGAC
GTCATCCTCACTGAAATTGATGTCGTCTCACCAAACCTCCATGTCATCTCAC
CCAAGTCAATGCTGCACTGGTTGACCTCTGTGCGACCCTGTCTGCCTTCATG
CTGTTCTCCTC

The following amino acid sequence <SEQ ID NO. 115> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 57:

EENSMKADKGRTEVNQCSIDLGEDDMEFGEDDINFSEDDVEAVNIPESLPPSRRN
SNSNPLPRCYQCKAAK**VIFIIIFSYVLSGPYCFLAVLAVWVDVETQVPQWVITII**
IWLFFLQCCIHPYVYGYMHKT**IKKEI**QDMLKKFFCKEKKPKEDSHPDLPGTEGGT
EGKIVPSYDSATFPSFGKPTVHTRNKRRFLFNGPTIHCQTIPFQAKVLHTHALHH
KVDKYIEEAGTGVFPKHGL

The following DNA sequence Seq-2645 <SEQ ID NO. 58> was identified in *H. sapiens*:

AGTGGAAAGACCACACCTAGGAACCGACTCTAGCTCTTACCAACCCGTAAAGC

CTGAGGCTCAGTTGCTGTCCTGGAGAACAGAAAACATAATCATGGCTATTC
TGAGGGTCAGGGCAAGTGCTTGCAAGTGGGATTGTGGTGGCAGTGGGAG
GGATTCTGGGTTCACTGTCATGCTAGTTGTGTAAGTGGCAATGCAACCGTG
TAAGTGTCAAGGAAACCCCTCAATAAGACTGAGCCAGAGGCCAATAAGAAGCC
AGCATTACATGATGTTCTTCCTTTGTAAGTAGGAAATTGATTTGCAC
ACTGATTGGCCCACCAATTCCCTGGAGAGATCTGTGGGATGTCTCTTTGTTA
CTTGAACTTCTGGTGCAGGACTGGTCATTGTGATCAGTTACTCCAAAATT
TTACAGGTATGTTCTGCAAGTGCTGCCACTGAACTTCACCCAGGCTGGGG
TTATTCTGCTAGAATCTAGAATTGGGTCGGAGAACACCTAACAGAGTCAC
GCCAGCTCAATCTGATTCACTGCCAGGTCTACAAACACTGAGGAAGGAGAG
GATTTTTAGAAGTTATCTTGATTATGTTTGCTCATCACTAAAGT
AATACT

The following amino acid sequence <SEQ ID NO. 116> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 58:

SGKTPRNRLLPPCKPEAQLLSLENRKHNHGYSEGQQVLCKWDCGGQWEGF
WGSLSCLCNWAMQPCKCQETLNKTEPEANKKPAFTCSFPFCNEISICTLIWPTIPG
EISWDVSFVTLNFLVPGLVIVISYSKILQVCFLQVLPLNFTQAWGYFCNLRIWGRR
TPKSSRQLNLDLPRSTTLRKERIFLEVISLLCFLLITKVI